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Silfluo Phenyl Silicone Rubber and Fluoro Silicone Rubber

Exploring Speciality Raw Materials



Phenyl Silicone Rubber introduction

Special silicone rubbers, such as phenyl silicone rubber and fluoro silicone rubber, are high-performance variants tailored to handle unique conditions that standard silicones might not withstand. Each type incorporates specific chemical groups—phenyl or fluoro—that modify their molecular structure, making them ideal for challenging applications that involve extreme temperatures or aggressive chemicals.

Phenyl Silicone Rubber

Phenyl silicone rubber incorporates phenyl groups within its polymer chain, creating a material that maintains flexibility and resilience even at ultra-low temperatures. This rubber is particularly valued for applications in cold and high-altitude environments where most rubbers would fail.

Key Properties of Phenyl Silicone Rubber:

1. **Low-Temperature Tolerance:** Known for its superior flexibility at low temperatures, phenyl silicone rubber remains stable and pliable even down to -100°C (-148°F). This makes it ideal for environments where brittleness could lead to material failure.
2. **Heat Resistance:** It retains thermal stability comparable to general-purpose silicone, capable of withstanding temperatures up to around 250°C (482°F).
3. **Durable Elasticity:** The addition of phenyl groups enables the rubber to endure repeated deformation without cracking, even in low temperatures.
4. **Electrical Insulation:** It provides good electrical insulating properties, making it suitable for electronic components that may be exposed to extreme cold.

Applications:

- **Aerospace Components:** Ideal for high-altitude and space applications, where parts need to withstand extremely low temperatures without losing elasticity.
- **Cryogenic Systems:** Used in laboratory and industrial settings, particularly in sealing applications for cryogenic machinery or storage.
- **Automotive Parts:** Employed in seals and gaskets where both high and low-temperature flexibility is essential.

Phenyl Silicone Rubber

Special silicone rubber	Product Code	Chemical Name	CAS NO.	Tech Data & Application
Phenyl Silicone Rubber	LR-120	Methylphenylsilicone rubber gum (120 silicone rubber)		M.W. 50~80 (×10000); M.W. 40~70 (×10000) Excellent low temperature resistance, high temperature resistance, excellent weather resistance; It can be used as a raw material for low temperature, high temperature resistance, radiation -resistant phenyl phenyl mixed glue.
	LR-PVMQ	Phenyl vinyl methyl silicone; Poly dimethyl diphenyl vinyl siloxane; Phenyl silicone gum; PVMQ		Phenyl content (mol %): 5.0-25.0 Vinyl content (mol %): 0.10-0.35 In addition to a series of characteristics of vinyl silicone rubber, this product also has excellent low temperature resistance, radiation resistance, burning resistance and self-extinguishing properties. It is one of the important materials in the aerospace industry and cutting-edge technology. It can be used as a variety of molded and extruded products, used for sealing rings, gaskets, pipes, and rods that are resistant to cold and burning, heat aging and radiation. It can also be used to make various special-purpose products, such as: making damping materials, pressure-sensitive adhesives, etc.
	LR-RTVP	Phenyl silicone gum (RTV); Dihydroxy poly dimethyl diphenyl siloxane		Viscosity 25°C mPa.s 2000-10000 Phenyl content (mol%): 2.5-20.0 In addition to excellent electrical properties, weather resistance, and ozone resistance, this product also has good low temperature resistance, radiation resistance, ablation resistance and self-extinguishing properties. It can be used as potting material for various electronic and electrical components, and can also be used as impregnation impression and release material, and a component of adhesive. It is still elastic at minus 120°C and can be used for special purposes.

Silicone Rubber LR-120

Description:
Chemical Name: Methylphenylsilicone rubber gum
Synonyms: 120 silicone gum, 120 silicone rubber
Equivalents:

Typical Technical Properties:

Test Item	Standard		
	Test Method	LR-120A	LR-120B
Appearance	Visual	Colorless transparent	Colorless transparent
Molecular Weight (10 ⁴)	GBT-28610	50~80	40~70
Vinyl Content (mol/%)	GBT-28610	0.05~1.5	0.05~1.5
Phenyl Chain Content (mol/%)	1H-NMR	5~20	20~30
Volatile Content (150°C, 3h %)	GBT-28610	2.0	≤2.0

Applications:
Excellent low temperature resistance, high temperature resistance, excellent weather resistance;
It can be used as a raw material for low temperature, high temperature resistance, radiation -resistant phenyl phenyl mixed glue.

Package &Storage:
In 200L drum
Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. Keep in unopened containers. It is shipped as non-hazardous substance.
Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.



Phenyl Silicone Rubber

Silicone Rubber LR-PVMQ

Description:

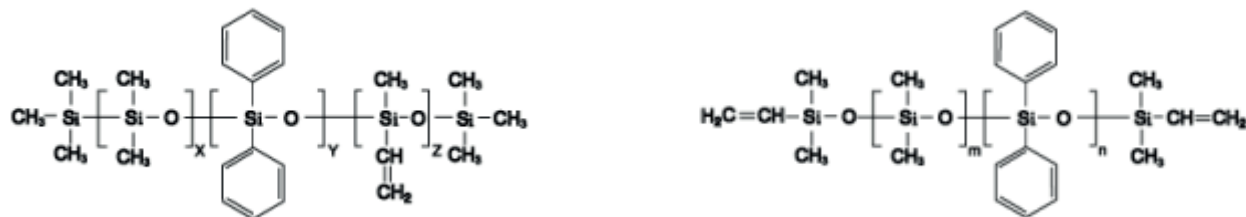
Chemical Name: Methylphenylvinyl silicone rubber

Synonyms: High temperature vulcanized phenyl silicone rubber raw rubber;

Polydimethyldiphenylvinylsiloxane; Phenyl silicone raw rubber; PVMQ

Molecular Structure:

High Viscosity: $[(CH_3)_2SiO]_x[(C_6H_5)_2SiO]_y[CH_3C_2H_3SiO]_z[(CH_3)_3Si]_2$



Liquid: $[C_2H_3(CH_3)_2Si]_2O[(CH_3)_2SiO]_m[(C_6H_5)_2SiO]_n$

Typical Technical Properties:

Appearance: Transparent or opalescent, without mechanical impurities

Phenyl content (mol%): 5.0-25.0 Vinyl content (mol%): 0.10-0.35 Molecular weight (10,000): 30-100

Applications:

In addition to a series of characteristics of vinyl silicone rubber, this product also has excellent low temperature resistance, radiation resistance, burning resistance and self-extinguishing properties. It is one of the important materials in the aerospace industry and cutting-edge technology. It can be used as a variety of molded and extruded products, used for sealing rings, gaskets, pipes, and rods that are resistant to cold and burning, heat aging and radiation. It can also be used to make various special-purpose products, such as: making damping materials, pressure-sensitive adhesives, etc.



Package &Storage:

In 20kg pail, 200kg drum

Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. Keep in unopened containers, shelf life is 60 months from the date of production. It is shipped as non-hazardous substance.

Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Silicone Rubber LR-RTVP

Description:

Chemical Name: Room temperature vulcanized phenyl silicone rubber raw rubber

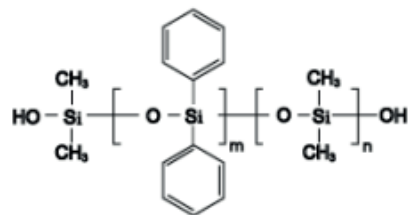
Synonyms: α , ω dihydroxy polydimethyldiphenylsiloxane;

Phenyl silicone rubber raw rubber

Equivalents: /

Molecular Structure:

$(CH_3)_2SiOH[(C_6H_5)_2SiO]_m[(CH_3)_2SiO]_nOH$



Typical Technical Properties:

Appearance: Colorless transparent or light yellow liquid

Solubility: soluble in toluene, xylene, chlorinated hydrocarbons and other organic solvents

Viscosity (25 °C, mPa.s): 2000-10000

Phenyl content (mol %): 2.5-20.0

Volatile content (150°C / 2h): ≤ 3.0

Applications:

In addition to excellent electrical properties, weather resistance, and ozone resistance, this product also has good low temperature resistance, radiation resistance, ablation resistance and self-extinguishing properties. It can be used as potting material for various electronic and electrical components, and can also be used as impregnation impression and release material, and a component of adhesive. It is still elastic at minus 120°C and can be used for special purposes.



Package &Storage:

In 20kg pail, 200kg drum

Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. Keep in unopened containers, Shelf life is 60 months from the date of production. It is shipped as non-hazardous substance.

Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.



Fluoro Silicone Rubber introduction

Fluoro silicone rubber (FVMQ) is a modified silicone with fluorine atoms integrated into its structure, which enhances its resistance to oils, solvents, and fuels—substances that typically degrade standard silicones. Fluoro silicone's unique chemical composition allows it to perform reliably in environments where exposure to harsh chemicals and high temperatures are common.

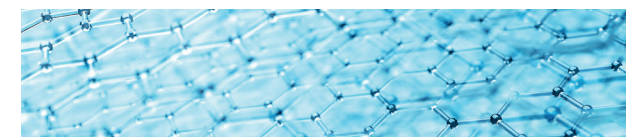
Key Properties of Fluoro Silicone Rubber:

1. **Chemical Resistance:** Fluoro silicone rubber is exceptionally resistant to fuels, oils, and solvents, making it ideal for situations that involve contact with aggressive substances.
2. **Temperature Versatility:** It remains operational over a broad temperature range, generally from -60°C to 230°C (-76°F to 446°F), allowing it to function in both cold and hot conditions.
3. **Weather and Environmental Stability:** Like other silicone types, it withstands exposure to UV rays, ozone, and other environmental factors without degrading.
4. **Mechanical Strength:** While slightly less flexible than regular silicone, fluoro silicone rubber still provides adequate elasticity and strength, which is vital in demanding applications.

Applications:

- **Automotive and Aerospace Fuel Systems:** Commonly used in gaskets, hoses, and O-rings for fuel and oil systems due to its superior resistance to hydrocarbon-based fluids.
- **Industrial Machinery:** Often used in equipment where seals come into frequent contact with solvents, acids, or other industrial chemicals.
- **Oil and Gas Equipment:** Suitable for seals and components in environments where hydrocarbons are present, such as in drilling or extraction machinery.

Both phenyl silicone rubber and fluoro silicone rubber offer tailored solutions for high-stress environments, making them essential for industries that demand durability and specialized resistance to temperature or chemicals. These materials expand silicone's utility, allowing engineers to use them in increasingly complex and challenging applications.



Fluoro Silicone Rubber

Special silicone rubber	Product Code	Tech Data & Application
Fluorosilicone Rubber	Fluoro silicone gum	Thermal vulcanized fluorine silicon polymers have excellent oil resistance and anti-solvents performance in transparent glue. They can be used at -60 ~ 200 °C. It is mainly used to prepare fluorous silicon mixed glue.
	F5200 High Tear Strength Series Fluorosilicone Rubber	It has excellent oil, solvent, high and low temperature resistance; high strength and high tear strength. It is an uniform mixture made on the basis of Fluoro-silicone elastomer by adding some kinds of fillers, additives etc.
	F5300 Low Pressure Deformation Fluorosilicone Compound	This product is an uniform mixture made on the basis of Fluoro-silicone elastomer by adding some kinds of fillers, additives etc. It has the advantages of silicone rubber and fluororubber. It has excellent oil resistance, solvent resistance, low compression deformation, good high and low temperature resistance, weather resistance, and resilience. It is an elastomer which can be used in fuel media of -60 to 225°C.
	F5400 High Resilience Series Fluorosilicone Rubber	It has excellent oil, solvent resistance, low compression set, good high or low temperature resistance and resilience. This product is an uniform mixture made on the basis of Fluoro-silicone elastomer by adding some kinds of fillers, additives etc.
	F5500 Adhesive Purpose Series Fluorosilicone Rubber	Excellent calenderability, oil resistance, solvent resistance which can bond with silicone rubber.
	F5502 Adhesive Purpose Series Fluorosilicone Rubber	It has excellent oil, solvent resistance, low compression set, good high or low temperature resistance and resilience.
	F5600 Flame-retarded Series Fluorosilicone Rubber	It has excellent oil, solvent, good high and low temperature resistance; good flame retardance which meets the UL94V0 highest flame-retardant level.
	F5700 Extruded Fluorosilicone Rubber	It has excellent oil, solvent resistance, acid and alkali resistance. This product is suitable for DCPH-vulcanized extrusion molding.

Fluorosilicone Rubber LR-F5100

Description:

Chemical Name: Fluoro silicone gum
Synonyms: Fluorous silica gum
Equivalents:

Typical Technical Properties:

Test Item	Standard		
	Test Method	LR-5100A	LR-5100B
Appearance	Visual	Colorless transparent	Colorless transparent
Odour	No special odour	No special odour	No special odour
Molecular Weight (104)	GBT-28610	50~70, 80~100, 110~130	50~70, 80~100
Vinyl Content (mol/%)	GBT-28610	0.05~1	0.05~1
Density (25°C, /cm)	GBT 2013-2010	1.25~1.30	1.05~1.23
Volatile Content (150°C, 3h %)	GBT-28610	≤1.0	≤1.0

Applications:

Thermal vulcanized fluorine silicon polymers have excellent oil resistance and anti-solvents performance in transparent glue. They can be used at -60 ~ 200 ° C. It is mainly used to prepare fluorous silicon mixed glue.



Package &Storage:

In 200L drum
Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. This product has cold-flow characteristics, should avoid bag breakage in the process of transportation and usage, shelf life is 12 months from the date of production. It is shipped as non-hazardous substance.
Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Fluoro Silicone Rubber

Fluorosilicone Rubber LR-F5200

Description:
Chemical Name: High Tear Strength Series Fluorosilicone Rubber
Synonyms: Fluorosilicone gum
Equivalents:

Typical Technical Properties:

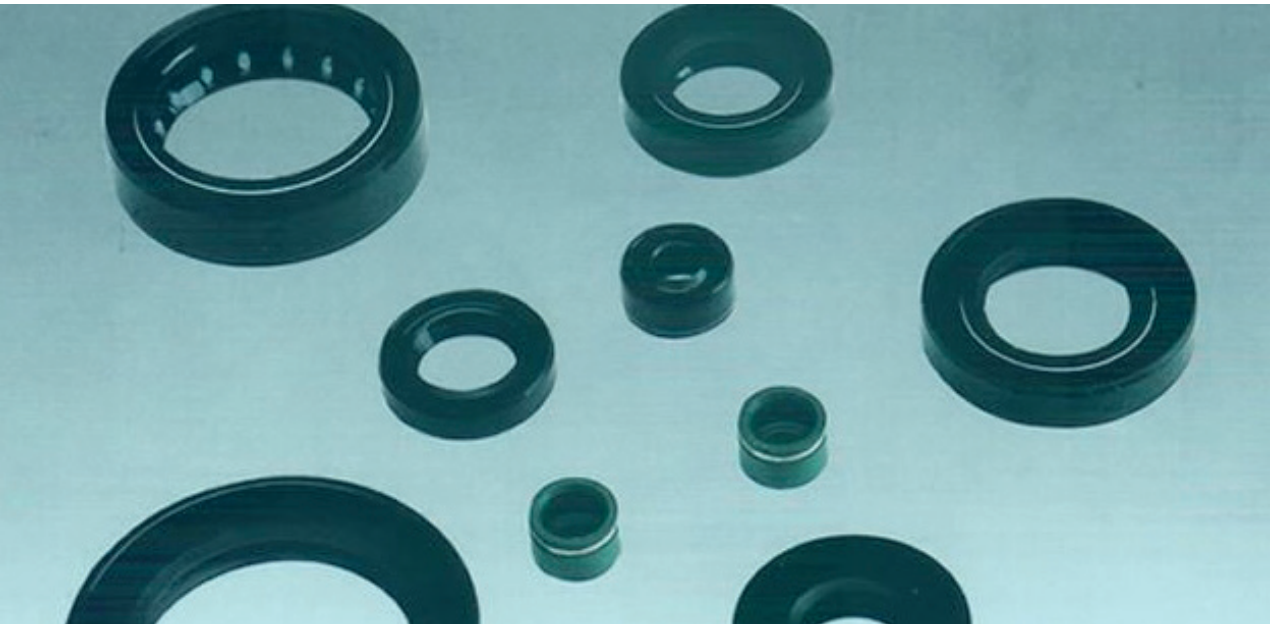
Test Item	Standard			
	Test Method	LR-5240	LR-5250	LR-5260
Appearance	Visual	Milk white, translucent		
Specific Gravity (g/cm ³)	ASTM D792	1.42	1.44	1.45
Hardness / shoreA	ASTM D2240	40	50	60
Tensile Strength (MPa)	ASTM D412	10.1	10.2	10.3
Elongation At Break (%)	ASTM D412	490	457	440
Tear Strength (KN/m)	ASTM D624-B	11	11	12
Heat Resistance 225°C X 72h	Hardness change / shore A	3	3	2
	Tensile strength change %	-19	-16	-17
	Elongation at break change %	-14	-17	-18
Fuel C Volume change/% 23°C/72h	ASTM D471	23	21	20
Curing Condition	0.7 DBPH, Press cure: 170°C x 15min, Post cure: 200°C x 4h			

The above values are not intended for use in preparing specifications.
Heat resistance additives need to be added to meet the requirements of heat resistance.

Applications:
It has excellent oil, solvent, high and low temperature resistance; high strength and high tear strength. It is an uniform mixture made on the basis of Fluoro-silicone elastomer by adding some kinds of fillers, additives etc.

Processing Advice:
It is recommended to use 0.6 ~ 1 phr. 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane(DBPH).
The customer shall decide the optimum curing temperature and time according to the product dimensions and curing methods.

Package &Storage:
Packed in plastic bags placed into reinforced cardboard boxes. Each box contains 2 bags with 10kg per bag.
Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. This product has cold-flow characteristics, should avoid bag breakage in the process of transportation and usage, shelf life is 12 months from the date of production. It is shipped as non-hazardous substance.
Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.



Fluoro Silicone Rubber

Fluorosilicone Rubber LR-F5300

Description:
Chemical Name: Low Pressure Deformation Fluorosilicone Compound
Synonyms: Fluorosilicone gum
Equivalents:

Typical Technical Properties:

Test Item	Standard				
	Test Method	LR-5340	LR-5360	LR-5370	LR-5380
Appearance	Visual	Pale yellow, Smooth surface, No Impurities			
Specific Gravity (g/cm ³)	ASTM D792	1.40	1.46	1.47	1.50
Hardness / shoreA	ASTM D2240	38	60	70	79
Tensile Strength (MPa)	ASTM D412	8.5	9.5	8.5	7.3
Elongation At Break (%)	ASTM D412	400	300	270	170
Tear Strength (KN/m)	ASTM D624-B	16	20	16	15
	ASTM D395	10	9	13	13
Heat Resistance 225°C X 72h	Hardness change / shore A	+5	+5	+4	+4
	Tensile strength change %	-16	-17	-16	-18
	Elongation at break change %	-8	-10	-15	-23
Fuel C Volume change/% 23°C/72h	ASTM D471	23	23	21	21
Curing Condition	0.8 DCBP, Press cure: 170°C x 15min, Post cure: 200°C x 4h				

The above values are not intended for use in preparing specifications.
Heat resistance additives need to be added to meet the requirements of heat resistance.

Applications:
It has excellent oil, solvent, high and low temperature resistance; high strength and high tear strength. It is an uniform mixture made on the basis of Fluoro-silicone elastomer by adding some kinds of fillers, additives etc.

Processing Advice:
It is recommended to use 0.6 ~ 1 phr. 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane(DBPH).
The customer shall decide the optimum curing temperature and time according to the product dimensions and curing methods.

Package &Storage:
Packed in plastic bags placed into reinforced cardboard boxes. Each box contains 2 bags with 10kg per bag.
Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. This product has cold-flow characteristics, should avoid bag breakage in the process of transportation and usage, shelf life is 12 months from the date of production. It is shipped as non-hazardous substance.
Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.



Fluoro Silicone Rubber

Fluorosilicone Rubber LR-F5400

Description:
Chemical Name: High Resilience Series Fluorosilicone Rubber
Synonyms: Fluorosilicone gum
Equivalents:

Typical Technical Properties:

Test Item	Standard						
	Test Method	LR-5430	LR-5440	LR-5450	LR-5460	LR-5470	LR-5480
Appearance	Visual	Milk white, translucent			Pale yellow		
Specific Gravity (g/cm3)	ASTM D792	1.38	1.41	1.42	1.43	1.45	1.47
Hardness / shoreA	ASTM D2240	28	40	48	60	70	80
Tensile Strength (MPa)	ASTM D412	10.2	9.5	9.5	10.2	9.9	8.1
Elongation At Break (%)	ASTM D412	485	494	363	296	241	159
Tear Strength (KN/m)	ASTM D624-B	18	26	19	22	21	16
Resilience (%)	ASTM D1054	41	35	46	40	37	39
Heat Resistance 225°C X 72h	Hardness change / shore A	2	2	3	2	2	3
	Tensile strength change %	-18	-17	-21	-25	-20	-19
	Elongation at break change %	-19	-16	-18	-21	-16	-15
Fuel C Volume change/% 23°C/72h	ASTM D471	22	19	18	19	19	19
Curing Condition	0.7 DBPH, Press cure: 170°C x 15min, Post cure: 200°C x 4h						

The above values are not intended for use in preparing specifications.
Heat resistance additives need to be added to meet the requirements of heat resistance.

Applications:
It has excellent oil, solvent resistance, low compression set, good high or low temperature resistance and resilience.
This product is an uniform mixture made on the basis of Fluoro-silicone elastomer by adding some kinds of fillers, additives etc

Processing Advice:
It is recommended to use 0.6 ~ 1 phr. 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane(DBPH).

The customer shall decide the optimum curing temperature and time according to the product dimensions and curing methods.



Package &Storage:
Packed in plastic bags placed into reinforced cardboard boxes. Each box contains 2 bags with 10kg per bag.
Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. This product has cold-flow characteristics, should avoid bag breakage in the process of transportation and usage, shelf life is 12 months from the date of production. It is shipped as non-hazardous substance.
Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Fluoro Silicone Rubber

Fluorosilicone Rubber LR-F5500

Description:

Chemical Name: Adhesive Purpose Series Fluorosilicone Rubber
Synonyms: Fluorosilicone gum
Equivalents:

Typical Technical Properties:

Test Item	Standard				
	Test Method	LR-5540	LR-5550	LR-5560	LR-5561
Appearance	Visual	Pale yellow			
Specific Gravity (g/cm3)	ASTM D792	1.4	1.41	1.42	1.44
Hardness / shoreA	ASTM D2240	41	50	60	61
Tensile Strength (MPa)	ASTM D412	9.5	9.8	10.2	9.8
Elongation At Break (%)	ASTM D412	370	282	263	310
Tear Strength (KN/m)	ASTM D624-B	17	17	18	17
Heat Resistance 225°C X 72h	Hardness change / shore A	4	2	+2	2
	Tensile strength change %	-24	-25	-23	-26
	Tensile strength change %	-19	-10	-14	-12
Fuel C Volume change/% 23°C/72h	ASTM D471	23	23	21	21
Peel Strength/N/mm, with Methyl vinyl silicone rubber		2	2	2.2	2
Curing Condition	0.8 DCBP, Press cure: 120°C x 15min, Post cure: 200°C x 4h				

The above values are not intended for use in preparing specifications.
Heat resistance additives need to be added to meet the requirements of heat resistance.

Applications:

Excellent calenderability, oil resistance, solvent resistance which can bond with silicone rubber. It can be used in automotive turbocharger tubes or other compound rubber tubes.

Processing Advice:

It is recommended to use 0.8 ~ 1 phr. peroxide (2,4-dichlorobenzoy)Vulcanizing agent (DCBP).
The customer shall decide the optimum curing temperature and time according to the product dimensions

Package &Storage:

Packed in plastic bags placed into reinforced cardboard boxes. Each box contains 2 bags with 10kg per bag.
Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. This product has cold-flow characteristics, should avoid bag breakage in the process of transportation and usage, shelf life is 12 months from the date of production. It is shipped as non-hazardous substance.
Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.



Fluoro Silicone Rubber

Fluorosilicone Rubber LR-F5502

Description:

Chemical Name: Adhesive Purpose Series Fluorosilicone Rubber
Synonyms: Fluorosilicone gum
Equivalents:

Typical Technical Properties:

Test Item	Standard		
	Test Method	LR-F5552	LR-F5562
Appearance	Visual	Pale yellow	Colorless transparent
Specific Gravity (g/cm3)	ASTM D792	1.42	1.43
Hardness / shoreA	ASTM D2240	52	61
Tensile Strength (MPa)	ASTM D412	10.2	9.4
Elongation At Break (%)	ASTM D412	330	280
Tear Strength (KN/m)	ASTM D624-B	20	19
Compression Set (177°C*22h)	ASTM D395	7	8
Resilience %	ASTM D1054	35	34
Heat Resistance 200°C X 72h	Hardness change / shore A	2	2
	Tensile strength change %	-24	-23
	Elongation at break change %	-21	-20
Fuel C Volume change/% 23°C/72h	ASTM D471	22	21
Curing Condition	0.5 DBPH, Press cure: 170°C x 15min, Post cure: 200°C x 4h		

The above values are not intended for use in preparing specifications.
Heat resistance additives need to be added to meet the requirements of heat resistance.

Applications:

Excellent calenderability, oil resistance, solvent resistance which can bond with silicone rubber. It can be used in automotive turbocharger tubes or other compound rubber tubes.

Processing Advice:

It is recommended to use 0.4 ~ 0.7 phr. 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane(DBPH).
The customer shall decide the optimum curing temperature and time according to the product dimensions and curing methods.

Package &Storage:

Packed in plastic bags placed into reinforced cardboard boxes. Each box contains 2 bags with 10kg per bag.
Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. This product has cold-flow characteristics, should avoid bag breakage in the process of transportation and usage, shelf life is 12 months from the date of production. It is shipped as non-hazardous substance.
Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Fluoro Silicone Rubber

Fluorosilicone Rubber LR-F5600

Description:

Chemical Name: Flame-retarded Series Fluorosilicone Rubber
Synonyms: Fluorosilicone gum
Equivalents:

Typical Technical Properties:

Test Item	Standard		
	Test Method	LR-5660	LR-5670
Appearance	Visual	White	
Specific Gravity (g/cm3)	ASTM D792	1.46	1.48
Hardness / shoreA	ASTM D2240	60	70
Tensile Strength (MPa)	ASTM D412	6.8	6.5
Elongation At Break (%)	ASTM D412	310	290
Tear Strength (KN/m)	ASTM D624-B	17	17
Compression Set (177°C*22h)	ASTM D395	7	8
Heat Resistance 200°C X 72	Hardness change / shore A	5	5
	Tensile strength (MPa)	3.85	3.5
	Elongation at break change %	161	154
IRM903 Volume Change % 150°C X 72h	ASTM D471	5.5	5.2
Fuel C Volume change/% 23°C/72h	ASTM D471	20	20
Flame-retardant Level	GBT10707-2008	FV 0	FV 0
Curing Condition	0.7 DBPH, Press cure: 170°C x 15min, Post cure: 200°C x 4h		

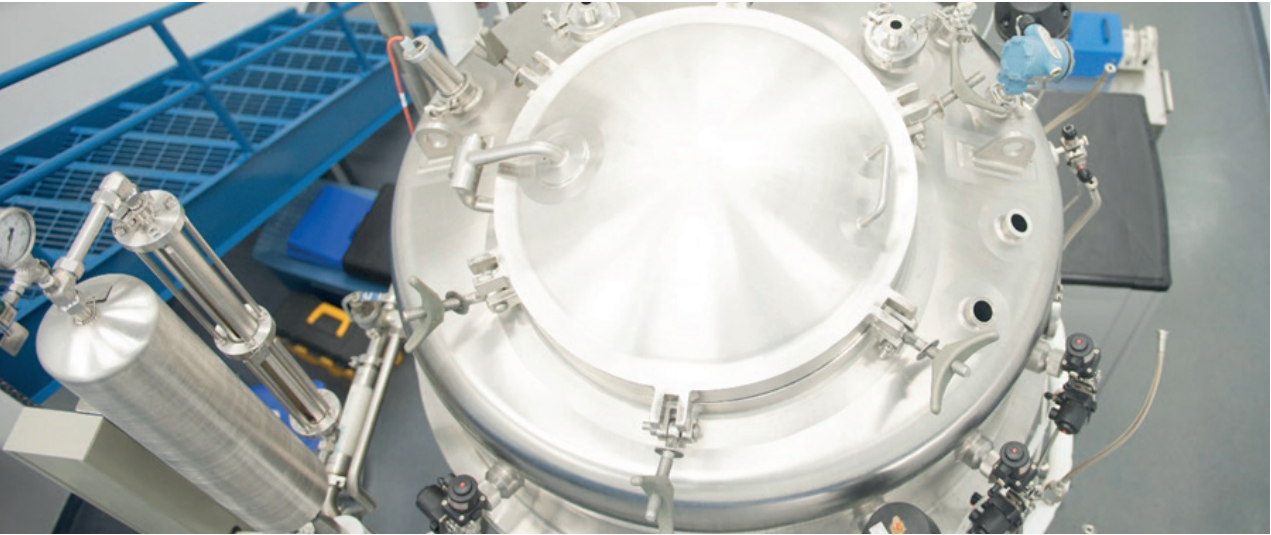
The above values are not intended for use in preparing specifications.
Heat resistance additives need to be added to meet the requirements of heat resistance.

Applications:

It has excellent oil, solvent, good high and low temperature resistance; good flame retardance which meets the UL94V0 highest flame-retardant level.

Processing Advice:

It is recommended to use 0.6 ~ 1 phr. 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane(DBPH).
The customer shall decide the optimum curing temperature and time according to the product dimensions and curing methods.



Package &Storage:

Packed in plastic bags placed into reinforced cardboard boxes. Each box contains 2 bags with 10kg per bag.
Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. This product has cold-flow characteristics, should avoid bag breakage in the process of transportation and usage, shelf life is 12 months from the date of production. It is shipped as non-hazardous substance.
Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Fluoro Silicone Rubber

Fluorosilicone Rubber LR-F5700

Description:

Chemical Name: Extruded Fluorosilicone Rubber

Synonyms: Fluorosilicone gum

Equivalents:

Typical Technical Properties:

Test Item	Standard		
	Test Method	LR-5760	LR-5770
Appearance	Visual	Translucent, smooth surface, no impurities	
Specific Gravity (g/cm3)	ASTM D792	1.44	1.48
Hardness / shoreA	ASTM D2240	60	70
Tensile Strength (MPa)	ASTM D412	10.5	10.1
Elongation At Break (%)	ASTM D412	207	201
Tear Strength (KN/m)	ASTM D624-B	18	17
Heat Resistance 225°C X 72h	Hardness change / shore A	4	5
	Tensile strength change %	-27	-24
	Tensile strength change %	-26	-23
Fuel C Volume change/% 23°C X 72h	ASTM D471	21	20
IRM903 Volume Change/% 150°C X 72h	ASTM D471	4.5	4
Nitric acid/sulfuric acid/hydrochloric acid mixed solution PH < 1 100°C X 120h			
Acid Resistance Volume Change/%	ASTM D471	0.3	0.3
3% sodium hydroxide aqueous solution 60°C X 72h			
Alkali Resistance Volume Change/%	ASTM D471	0.4	0.3
Curing Condition	0.8 DCPH, Press cure: 120°C x 15min, Post cure: 200°C x 4h		

The above values are not intended for use in preparing specifications.
Heat resistance additives need to be added to meet the requirements of heat resistance.

Applications:

It has excellent oil, solvent resistance,acid and alkali resistance.
This product is suitable for DCPH-vulcanized extrusion molding.



Processing Advice:

It is recommended to use 0.8 ~ 1 phr. 2,4-Dichlorobenzoyl peroxide(DCPH).
The customer shall decide the optimum curing temperature and time according to the product dimensions and curing methods.

Package &Storage:

Packed in plastic bags placed into reinforced cardboard boxes. Each box contains 2 bags with 10kg per bag.
Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. This product has cold-flow characteristics, should avoid bag breakage in the process of transportation and usage, shelf life is 12 months from the date of production. It is shipped as non-hazardous substance.
Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.