

Technical Data Sheet



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Fluorosilicone Rubber LR-F5400

Description:

Chemical Name: High Resilience Series Fluorosilicone Rubber

Synonyms: Fluorosilicone gum

Equivalents:

Typical Technical Properties:

Test Item	Test Method	Standard					
		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.

Features:

The High Resilience Series is a premium-grade fluorosilicone compound, precision-engineered from high-molecular-weight FVMQ base polymers, specialized fillers, and performance additives. It delivers a superior balance of oil and solvent resistance with exceptional elastic recovery and low compression set, ensuring reliable sealing performance under extreme thermal and chemical stress.

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Applications:

High-frequency dynamic seals, fuel system diaphragms, and precision O-rings for aerospace and automotive fuel systems.

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.