Technical Data Sheet

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Fluorosilicone Rubber LR-F5200

Description:

Chemical Name: High Tear Strength Series Fluorosilicone Rubber

Synonyms: Fluorosilicone gum

Typical Technical Properties:

Test Item	Standard			
	Test Method	LR-5240	LR-5250	LR-5260
Appearance	Visual	Milk white, translucent		
Specific Gravity (g/cm3)	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.

Features:

- High Tear & Tensile Strength: Superior mechanical toughness and resistance to nicking or tearing under stress;
- Exceptional Media Resistance: Outstanding stability in fuels, oils, and non-polar solvents with minimal swelling;
- Wide Thermal Spectrum: Maintains high physical integrity from -60°C to +200°C;
- Homogeneous Compound: Precision-mixed with reinforcing fillers for consistent processing and durability;
- Elastic Resilience: Combines heavy-duty mechanical strength with excellent sealing properties.

Applications:

1. Dynamic Seals: High-stress diaphragms, bellows, and reciprocating seals for aerospace and automotive;
2. Fuel System Components: Fuel pump membranes and flexible connectors requiring high puncture resistance;
3. Protective Sleeves: Durable jackets for sensors and wires exposed to oils and mechanical vibration;
4. Industrial Gaskets: Heavy-duty gaskets for high-pressure valves and chemical processing equipment.

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.