Technical Data Sheet

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Fluorosilicone Rubber LR-F5300

Description:

Chemical Name: Low Compression Set Fluorosilicone Compound

Synonyms: Fluorosilicone gum

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/cm3)	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.

Features:

- Ultra-Low Compression Set: Superior shape recovery and long-term sealing reliability;
- Dual Resistance: Combines the low-temp flexibility of silicone with the fuel/oil resistance of fluororubber;
- Extreme Temp Range: Reliable performance from -60°C to +225°C;
- High Chemical Stability: Excellent resistance to gasoline, solvents, and ozone;
- Superior Resilience: High rebound and weather resistance for outdoor use.

Applications:

1. Automotive: High-temp O-rings, fuel line seals, and turbocharger gaskets.
2. Aerospace: Fuel tank seals and engine manifold gaskets for extreme altitudes.
3. Industrial: Chemical pump diaphragms and solvent-resistant pressure seals.
4. Energy: Oil-field sealing components and high-voltage connector gaskets.

Processing Advice：

It is recommended to use 0.6 ~ 0.8 phr. 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane(DBPH). After mixing, roll it through 4 to 6 times as required. After rolling it repeatedly, cut the sheet according to the required thickness and place it on the molding machine for molding.

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.