

Technical Data Sheet



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Fluorosilicone Rubber LR-F5600

Description:

Chemical Name: Flame-retarded Series Fluorosilicone Rubber

Synonyms: Fluorosilicone gum

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
*Heat Resistance 200°C X 72h	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.

Features:

This series exhibits exceptional resistance to oils and solvents, coupled with outstanding performance across a broad temperature spectrum. It features superior flame retardancy, achieving the highest industry rating of UL 94 V-0.

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Applications:

1. Aerospace & Defense: Interior Cabin Seals: Flame-retardant seals and gaskets for aircraft interiors and cockpit electronics;
2. Firewall Grommets: Protective sleeves for wiring passing through engine firewalls;
3. Ammunition Storage Seals: Gaskets for containers requiring both fuel resistance and fire protection;
4. Electric Vehicles & Energy: Battery Pack Gaskets: Flame-retardant sealing solutions for EV battery enclosures to prevent thermal runaway propagation.
5. High-Voltage Connector Seals: Insulating seals for power distribution units (PDU) exposed to cooling oils or fluids.
6. Mass Transit: Tunnel & Subway Sealing: Gap fillers and seals for underground transit systems requiring strict fire, smoke, and toxicity (FST) compliance.

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.