

TDS of Ceramic rubber

This product is a new type material of fire-resistant flame retardant silicone rubber. After vulcanized, it keeps high elasticity of rubber at room temperature, and under the high temperature it forms hard ceramic layer. The ceramic layer has a certain strength and be capable of impact resistance. It keeps parts well running when fire breaks out. It is particularly applicable to fire resistant cables and refractory sealing strips.

Typical Properties:

Category		Item		
General grade		MY DC50	MY DC60	MY DC70
Appearance		White		
Vulcanization	Hardness Shore A	55±3	63±3	70±3
	Tensile strength MPa≥	5.5	6.5	6.0
	Elongation at break %≥	350	300	300
	Tear strength B KN/m≥	15	15	15
Specific density 25°C g/cm ³		1.35±0.05	1.40±0.05	1.42±0.05
Volume resistivity, Ω.cm ≥		1.0x10 ¹⁵	1.0x10 ¹⁵	1.0x10 ¹⁵
Dielectric constant		20	20	20
Flame retardance		FV-0	FV-0	FV-0

Physical data in the above table is for reference only.

Vulcanization condition: 175°C × 5Min.

Addition of curing agent: liquid 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane, flame retardant rubber 1.0%

Advantage:

- Under the high temperature of fire, it doesn't melt and dripping, and can form hard ceramic layer.



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- Flame retardance, high-temperature resistance and excellent electrical insulation properties.

Applications:

- Flame retardant and fire-resistant materials, such as fire-resistant wires, cables and sealing strips, etc.

Packing & Storage:

- 20kg/ carton lined with plastic bags or sheets.
- The products have a shelf life of 9 months from date of manufacture depending on the shore hardness if stored at room temperature in the originally sealed container.
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