

### TDS of Electrical insulating rubber

This product has good processability, good electrical insulativity, electrical erosion resistance, hydrophobicity and flame retardance. Its tracking resistance has reached the class 1A4.5. Molding and injection molding type can both meet the process requirements of customers. It is applicable to manufacturing of various composite insulators, surger arresters, insulators and high- & low-voltage electrical fittings for electrical lines of railways and urban light rails.

#### Typical Properties:

Category		Item							
Type 1 is applicable to molding		MY DT1	MY DT2	MY DC1	MY DC2	MY DD1	MY DD2	MY DE1	MY DE2
Type 2 is applicable to injection molding		DT1U	DT2U	DC1U	DC2U	DD1U	DD2U	DE1U	DE2U
Appearance		Gray white red							
Vulcanization	Hardness Shore A	60±2	60±2	60±2	60±2	58±2	58±2	58±2	58±2
	Tensile strength MPa≥	4.5	4.5	4.0	4.0	4.0	4.0	4.0	4.0
	Elongation at break %≥	280	300	280	300	240	260	240	260
	Breaking set% ≤	2	2	2	2	2	2	2	2
	Tear strength B KN/m≥	13	13	13	13	13	13	12	12
Specific density 25°C g/cm³		1.50±0.05	1.50±0.05	1.50±0.05	1.50±0.05	1.50±0.05	1.50±0.05	1.50±0.05	1.50±0.05
Compression set 180*22h %≤		40	40	40	40	35	35	40	40
Dielectric breakdown voltage Kv/mm ≥		22	22	20	20	18	18	17	17
Volume resistivity Ω·Vcm ≥		7x10 <sup>14</sup>	7x10 <sup>14</sup>	5x10 <sup>14</sup>	5x10 <sup>14</sup>	3x10 <sup>14</sup>	3x10 <sup>14</sup>	1x10 <sup>14</sup>	1x10 <sup>14</sup>
Flame retardance		FV-0	FV-0	FV-0	FV-0	FV-0	FV-0	FV-0	FV-0
Dielectric constant		3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
Dielectric loss tg δ≤		3x10 <sup>-2</sup>	3x10 <sup>-2</sup>	6x10 <sup>-2</sup>	6x10 <sup>-2</sup>	7x10 <sup>-2</sup>	7x10 <sup>-2</sup>	7x10 <sup>-2</sup>	7x10 <sup>-2</sup>

Tracking resistance TMA(1A4.5grade: corrosion depth mm ≤2.5)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
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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 0.4%

**Advantage:**

- Excellent physical properties
- Excellent electrical insulativity
- The flame retardance can reach the class FV-0 stated in the national standard IEC 60707.

**Applications:**

- Various composite insulators, Surge arrester
- High & Low voltage electrical fittings for electrical lines of railways and urban light rails.

**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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