

### TDS of Common Grade High-strength Fumed Rubber

Common grade high-strength fumed rubber for molding has high tear strength. They are applicable to molding process and can be used to manufacture silicone rubber products requiring high tear strength.

#### Typical Properties:

Category		Item				
High-strength rubber		MY D9730	MY D9740	MY D9750	MY D9760	MY D9770
Appearance		Transparent				
Vulcanization	Hardness Shore A	30±2	40±2	50±2	60±2	70±2
	Tensile strength MPa≥	8.0	8.5	8.5	8.5	8.5
	Elongation at break %≥	600	500	400	400	300
	Breaking set %≤	8	8	8	8	8
	Tear strength B KN/m≥	20	30	35	35	35
Post-curing	Hardness Shore A	33±2	45±2	55±2	65±2	75±2
	Tensile strength MPa≥	6.0	7.5	8.0	8.0	8.0
	Elongation at break %≥	540	450	350	300	250
	Tear strength B KN/m≥	10	18	20	20	20
Specific density 25°C g/cm <sup>3</sup>		1.07±0.04	1.13±0.04	1.15±0.04	1.18±0.04	1.22±0.04
Compression set 180*22h %≤		55	50	50	45	45
Resilience %≥		55	50	50	45	40
Dielectric strength kV/mm ≥		20	20	20	20	20
Volume resistivity Ω.cm≥		1.0 x 10 <sup>15</sup>	1.0 x 10 <sup>15</sup>	1.0 x 10 <sup>15</sup>	1.0 x 10 <sup>15</sup>	1.0 x 10 <sup>15</sup>

Physical data in the above table is for reference only.

Vulcanization condition: 175°C × 5Min. Post-curing condition: 200°C × 4h

Addition of curing agent: liquid 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane: 0.65%.

**Advantage:**

- Flexible processability
- High tear strength
- Good yellowing resistance

**Applications:**

- Various molded silicone rubber products requiring high strength

**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.