

TDS of Standard Grade High-strength Fumed Rubber

Standard grade high-strength fumed rubber for molding has high tear strength. They are applicable to products with special requirement for tear strength, such as: complicated bakeware and cell-phone cover, etc.

Typical Properties:

Category		Item					
High-strength rubber		MY D9330	MY D9340	MY D9350	MY D9360	MY D9370	MY D9380
Appearance		Transparent					
Vulcanization	Hardness Shore A	32±2	40±2	50±2	60±2	70±2	80±2
	Tensile strength MPa≥	8.0	9.0	9.0	9.0	8.5	8.0
	Elongation at break %≥	700	600	500	400	300	200
	Breaking set %≤	8	8	8	8	10	8
	Tear strength B KN/m≥	20	35	40	40	40	20
Post-curing	Hardness Shore A	33±2	45±2	55±2	65±2	75±2	83±2
	Tensile strength MPa≥	7.0	8.0	8.5	8.5	8.0	7.5
	Elongation at break %≥	650	550	450	350	250	150
	Tear strength B KN/m≥	12	20	25	25	25	18
Specific density 25°C g/cm³		1.07±0.04	1.13±0.04	1.15±0.04	1.18±0.04	1.22±0.04	1.25±0.04
Compression set 180*22h %≤		55	45	50	45	45	40
Resilience %≥		55	50	50	48	40	35
Dielectric strength kV/mm ≥		20	20	20	20	20	20
Volume resistivity Ω.cm≥		1.0 x 10 ¹⁵	1.0 x 10 ¹⁵	1.0 x 10 ¹⁵	1.0 x 10 ¹⁵	1.0 x 10 ¹⁵	1.0 x 10 ¹⁵

Physical data in the above table is for reference only.

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

- High-tear-strength molded products, such as complicated bakeware and cell-phone cover

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.