Mingyi Silicone
明怡硅业

安徽明怡硅业有限公司

Ming Yi Silicone Co., Ltd.

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TDS of Standard Grade Fumed Rubber for molding

Standard grade fumed rubber for molding has good physical properties, yellowing resistance and good processability. They are applicable to molded products with requirement for high transparency. E.g., keypads, sanitary products and industrial miscellaneous parts such as O-rings and sealing gaskets.

Typical Properties:

Category		Item						
Rubber for molding		MY D9130	MY D9140	MY D9150	MY D9160	MY D9170	MY D9180	MY D9190
Appearance		Transparent						
Vulcanization	Hardness Shore A	30±2	40±2	50±2	60±2	70±2	80±2	86±2
	Tensile strength MPa≥	8.0	8.0	8.5	8.5	8.0	8.0	6.0
	Elongation at break %≥	700	600	500	400	300	200	120
	Breaking set %≤	8	8	8	8	8	8	6
	Tear strength B KN/m≥	15	20	25	25	25	20	10
Post-curing	Hardness Shore A	35±2	45±2	56±2	66±2	74±2	84±2	90±2
	Tensile strength MPa≥	7.0	7.5	8.5	8.5	8.0	7.5	5.5
	Elongation at break %≥	650	550	450	400	300	200	100
	Tear strength B	10	18	20	20	20	18	8

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KN/m≥							
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	1.26±0.04
Compression set 180*22h %≤	55	45	50	50	45	40	35
Resilience %≥	55	50	50	50	45	40	35
Dielectric strength kV/mm ≥	20	20	20	20	20	20	20
Volume resistivity Ω.cm≥	1.0×10^{15}	1.0×10^{15}	1.0×10^{15}	1.0×10^{15}	1.0×10^{15}	1.0×10^{15}	1.0×10^{15}

Physical data in the above table is for reference only.

Vulcanization condition: 175℃×5Min. Post-curing condition: 200℃ x 4h

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

Advantage:

- Flexible processability
- Flexible comprehensive physical properties
- Good yellowing resistance

Applications:

- Used to manufacture silicone rubber products with requirement for high transparency, such as Keypads, sanitary products and O-rings

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.