

TDS of Addition-curing silicone rubber

This product is a solid silicone rubber cured with addition of platinum as the catalyst. It can be cured at a moderate temperature of 120°C, without any off-flavor and with high thermal utilization rate. The products made from it have higher tear strength than the grade like silicone products cured with peroxide. It is divided into two series: the D-01 series use precipitated silica, applicable to molding process and food contact silicone rubber products; the D-09 series use fumed silica, applicable to molding and extrusion process, and can be used to manufacture food contact silicone rubber products and transparent silicone tubes.

Typical Properties:

Category	Item	Appearance	Hardness Shore A	Tensile strength MPa≥	Elongatio n at break %≥	Breaking set %≤	Tear strength B KN/m≥	Specific density 25°C g/cm ³	Dielectric strength kV/mm ≥	Volume resistivity Ω.cm≥
Precipitate d grade	MY D0130	Ivory translucent	30±3	7.0	600	-	15	1.08±0.05	-	70
	MY D0140		40±3	7.5	500	-	19	1.13±0.05	-	55
	MY D0150		50±3	8.5	400	-	20	1.15±0.05	-	50
	MY D0160		60±3	8.0	400	-	20	1.19±0.05	-	50
	MY D0170		70±3	8.0	300	-	18	1.22±0.05	-	45
	MY D0180		80±3	7.0	200	-	15	1.25±0.05	-	35

Physical data in the above table is for reference only.

Vulcanization condition: platinum vulcanizator;(0.4-0.6)% added for component A, (0.8-2.0)% added for component B, at vulcanization temperature of (120-150°C)

Advantage:

- Platinum as the catalyst

- Cured at a moderate temperature of 120°C without any off-flavor
- High thermal utilization rate

Applications:

- The D-01 series use precipitated silica, applicable to molding process and food contact silicone rubber products.

Category	Item	Appearance	Hardness Shore A	Tensile strength MPa≥	Elongation at break %≥	Breaking set %≤	Tear strength B KN/m≥	Specific density 25°C g/cm³	Dielectric strength kV/mm ≥	Volume resistivity Ω.cm≥
Fumed grade	MY D0930	Transparent	30±3	8.0	700	-	15	1.07±0.04	-	60
	MY D0940		40±3	8.0	600	-	20	1.13±0.04	-	50
	MY D0950		50±3	8.5	500	-	25	1.15±0.04	-	50
	MY D0960		60±3	8.5	400	-	25	1.18±0.04	-	50
	MY D0970		70±3	8.0	300	-	25	1.22±0.04	-	40
	MY D0980		80±3	8.0	200	-	20	1.25±0.04	-	35

Physical data in the above table is for reference only.

Vulcanization condition: platinum vulcanizator;(0.4-0.6)% added for component A, (0.8-2.0)% added for component B, at vulcanization temperature of (120-150°C)

Application:

- The D-09 series use fumed silica, applicable to molding and extrusion process and can be used to manufacture food contact silicone rubber products and transparent silicone tubes.

Packing & Storage:

- 20kg/ carton lined with plastic bags or sheets.



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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.