

TDS of Common grade for molding

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This product has good physical and mechanical properties and processability. This product can be divided into two sub-categories: rubber for molding and rubber for extrusion. The rubber for molding is vulcanized with 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane as vulcanizator, applicable to manufacturing of industrial miscellaneous parts such as keypads, sealing rings and sealing gaskets; and the rubber for extrusion is vulcanized with vulcanizator DCBP (Di-(2,4-dichlorobenzoyl) Peroxide), applicable to manufacturing of various electric wires, cables, hoses and tapes.

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/cm³	Compression set 180*22h %≤	Resilience %≥
For molding	IOTA D7125	Ivory light yellow	25±3	3.5	700	8	10	1.05±0.05	-	-
	IOTA D7130		30±3	5.0	450	7	15	1.08±0.05	35	65
	IOTA D7140		40±3	6.5	400	7	16	1.13±0.05	30	60
	IOTA D7150		50±3	7.5	320	8	18	1.15±0.05	30	60
	IOTA D7160		60±3	7.5	280	8	18	1.19±0.05	30	50
	IOTA D7170		70±3	7.0	200	7	17	1.22±0.05	30	45
	IOTA D7180		80±3	7.0	150	6	16	1.25±0.05	25	45

	IOTA		86±2	4.0	80	6	10	1.26±0.05	25	40
	D7190									

Physical data in the above table is for reference only.

Vulcanization condition: 175°C × 5Min.

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

Advantage:

- Good processability
- Stable comprehensive physical properties

Applications:

- General industrial and civil 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≥
For extrusion	IOTA D7240	Ivory light yellow light gray	40±2	6.5	450	14	16	1.13±0.05	18	1.0 x 10 ¹⁴
	IOTA D7250		50±3	7.5	450	14	18	1.18±0.05	18	1.0 x 10 ¹⁴
	IOTA D7260		60±3	7.5	360	14	20	1.20±0.05	18	1.0 x 10 ¹⁴
	IOTA D7270		70±3	7.0	250	14	20	1.22±0.05	18	1.0 x 10 ¹⁴
	IOTA D7280		80±3	6.5	150	10	18	1.25±0.05	18	1.0 x 10 ¹⁴

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Vulcanization condition: 175°C × 5Min.

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

Advantage:

- Common grade for extrusion
- Flexible processability
- Flexible comprehensive physical properties

Applications:

- General industrial pigmented wires and cables

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.