

SABIC Innovative Plastics LNP Stat-kon MDM40 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* Stat-Kon* MDM40 is a compound based on Polypropylene resin containing Mica and Carbon. Characteristics are Statically Conductive. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-MDM40-PP.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D 792
	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.060 %	0.060 %	23°C / 50% RH; ISO 62
	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	5.00 MPa	725 psi	5 mm/min; ISO 527
	15.0 MPa	2180 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	18.0 MPa	2610 psi	5 mm/min; ISO 527
	22.0 MPa	3190 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	14 %	14 %	5 mm/min; ISO 527
	47 %	47 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	4.1 %	4.1 %	5 mm/min; ISO 527
	4.7 %	4.7 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	1.69 GPa	245 ksi	1 mm/min; ISO 527
	2.49 GPa	361 ksi	50 mm/min; ASTM D 638
Flexural Strength	28.0 MPa	4060 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	1.65 GPa	239 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	1.74 GPa	252 ksi	2 mm/min; ISO 178
Izod Impact, Notched	2.28 J/cm	4.27 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	13.6 J/cm	25.5 ft-lb/in	ASTM D 4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	19.0 kJ/m ²	9.04 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	95.0 kJ/m ²	45.2 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	19.0 J	14.0 ft-lb	Multiaxial Impact; ISO 6603
	24.0 J	17.7 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	84.2 µm/m-°C	46.8 µin/in-°F	ASTM D 696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Transverse to Flow	103 µm/m-°C	57.2 µin/in-°F	ASTM D 696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	93.0 °C	199 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	95.0 °C	203 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	51.0 °C	124 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	2.0 - 4.0 ohm	2.0 - 4.0 ohm	ASTM D 257

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China