

SABIC Innovative Plastics LNP Konduit MT00EL PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* Konduit* MT00EL is a Polypropylene base resin with thermal fillers. Characteristics of this grade are Thermal Conductivity and it is Low Extraactable. 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-Konduit-MT00EL-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.94 g/cc	1.94 g/cc	ASTM D 792
Density	1.94 g/cc	0.0701 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.030 %	0.030 %	23°C / 50% RH; ISO 62
	0.30 %	0.30 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
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	13.0 MPa	1890 psi	5 mm/min; ISO 527
	14.0 MPa	2030 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	14.0 MPa	2030 psi	5 mm/min; ISO 527
	15.0 MPa	2180 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	3.6 %	3.6 %	5 mm/min; ISO 527
	4.8 %	4.8 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D 638
	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	1.84 GPa	267 ksi	1 mm/min; ISO 527
	7.21 GPa	1050 ksi	50 mm/min; ASTM D 638
Flexural Strength	28.0 MPa	4060 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	4.54 GPa	658 ksi	2 mm/min; ISO 178
	4.78 GPa	693 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.170 J/cm	0.318 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	1.43 J/cm	2.68 ft-lb/in	ASTM D 4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	9.00 J	6.64 ft-lb	
	@Temperature 23.0 °C	@Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	53.0 µm/m-°C	29.4 µin/in-°F	ASTM D 696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Transverse to Flow	53.0 µm/m-°C	29.4 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)	112 °C	234 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	111 °C	232 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	66.0 °C	151 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	66.0 °C	151 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648

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