

Kolon SPESINÂ® KP513G30WBL Multi Reinforced PBT Resin

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

SPESINÂ® is a thermoplastic PBT resin with excellent thermal, mechanical and electrical properties. SPESINÂ® is widely used in industrial parts and especially in electrical-electronic parts. High heat stability, outstanding abrasion resistance, excellent electrical properties, good surface gloss, low water absorption, excellent chemical resistance, good processability. Information provided by US distributor, API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-SPESIN-KP513G30WBL-Multi-Reinforced-PBT-Resin.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	DIN 53479; ASTM D792
Water Absorption	0.050 %	0.050 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	125	125	DIN 53505; ASTM D785
Tensile Strength, Ultimate	142 MPa	20600 psi	DIN 53455; ASTM D638
Elongation at Break	5.0 %	5.0 %	DIN 53455; ASTM D638
Flexural Yield Strength	216 MPa	31300 psi	DIN 53455; ASTM D790
Flexural Modulus	8.35 GPa	1210 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	0.981 J/cm	1.84 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 Åµm/m-Å°C	22.2 Åµin/in-Å°F	DIN 53752; ASTM D696
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Melting Point	223 Å°C	433 Å°F	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	220 Å°C	428 Å°F	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 Å°C	401 Å°F	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Electrical Properties	^{3.7} Metric	^{3.7} English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	/DIN 53483
Dielectric Strength	27.0 kV/mm	686 kV/in	ASTM D149/DIN 53481
Arc Resistance	110 sec	110 sec	ASTM D495

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