

Kolon SPESINÂ® KP212G30VO G/F Reinforced & Retardant PBT Resin

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass Fiber Filled, Flame Retardant

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-KP212G30VO-GF-Reinforced-Retardant-PBT-Resin.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in ³	DIN 53479; ASTM D792
Water Absorption	0.050 %	0.050 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	DIN 53505; ASTM D785
Tensile Strength, Ultimate	132 MPa	19200 psi	DIN 53455; ASTM D638
Elongation at Break	5.0 %	5.0 %	DIN 53455; ASTM D638
Flexural Yield Strength	206 MPa	29900 psi	DIN 53455; ASTM D790
Flexural Modulus	8.83 GPa	1280 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	0.785 J/cm	1.47 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 Âµm/m-Â°C @Temperature 20.0 Â°C	22.2 Âµin/in-Â°F @Temperature 68.0 Â°F	DIN 53752; ASTM D696
Melting Point	224 Â°C	435 Â°F	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	DIN 53461; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	ASTM D150/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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