

Kolon SPESIN® KP212G15VO G/F Reinforced & Retardant PBT Resin (discontinued **)

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

Material Notes:

SPESIN® is a thermoplastic PBT resin with excellent thermal, mechanical and electrical properties. SPESIN® 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-KP212G15VO-GF-Reinforced-Retardant-PBT-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	DIN 53479; ASTM D792
Water Absorption	0.060 %	0.060 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.0060 - 0.014 cm/cm	0.0060 - 0.014 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	DIN 53505; ASTM D785
Tensile Strength, Ultimate	93.2 MPa	13500 psi	DIN 53455; ASTM D638
Elongation at Break	7.0 %	7.0 %	DIN 53455; ASTM D638
Flexural Yield Strength	167 MPa	24200 psi	DIN 53455; ASTM D790
Flexural Modulus	5.49 GPa	797 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	0.588 J/cm	1.10 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 μm/m-°C	22.2 μin/in-°F	DIN 53752; ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	224 °C	435 °F	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	178 °C	352 °F	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.5	3.5	ASTM D150/DIN 53483
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	26.0 kV/mm	660 kV/in	ASTM D149/DIN 53481
Arc Resistance	120 sec	120 sec	ASTM D495

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