

Kolon SPESIN® KP213G15HI Multi Reinforced PBT Resin (discontinued **)

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

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-KP213G15HI-Multi-Reinforced-PBT-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	DIN 53479; ASTM D792
Water Absorption	0.060 %	0.060 %	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	113	113	DIN 53505; ASTM D785
Tensile Strength, Ultimate	83.4 MPa	12100 psi	DIN 53455; ASTM D638
Elongation at Break	6.0 %	6.0 %	DIN 53455; ASTM D638
Flexural Yield Strength	132 MPa	19200 psi	DIN 53455; ASTM D790
Flexural Modulus	3.92 GPa	569 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	1.47 J/cm	2.76 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)	205 °C	401 °F	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
	3.6	3.6	

Dielectric Constant Electrical Properties	Metric @ Frequency 1e+6 Hz	English @ Frequency 1e+6 Hz	ASTM D150/DIN 53483 Comments
Dielectric Strength	26.0 kV/mm	660 kV/in	ASTM D149/DIN 53481
Arc Resistance	130 sec	130 sec	ASTM D495

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