

Kolon SPESIN® KP212VO Flame Retardant PBT Resin (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 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-KP212VO-Flame-Retardant-PBT-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	DIN 53479; ASTM D792
Water Absorption	0.060 %	0.060 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.018 - 0.026 cm/cm	0.018 - 0.026 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	DIN 53505; ASTM D785
Tensile Strength, Ultimate	63.7 MPa	9250 psi	DIN 53455; ASTM D638
Elongation at Break	30 %	30 %	DIN 53455; ASTM D638
Flexural Yield Strength	118 MPa	17100 psi	DIN 53455; ASTM D790
Flexural Modulus	3.04 GPa	441 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	0.392 J/cm	0.735 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C	38.9 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)	165 °C	329 °F	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
	3.2	3.2	

Dielectric Constant Electrical Properties	Metric @ Frequency 1e+6 Hz	English @ Frequency 1e+6 Hz	ASTM D150/DIN 53483 Comments
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D149/DIN 53481
Arc Resistance	85 sec	85 sec	ASTM D495

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