

Kolon SPESINÂ® KP211 General Purpose PBT Resin

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

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-KP211-General-Purpose-PBT-Resin.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	DIN 53479; ASTM D792
Water Absorption	0.080 %	0.080 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.017 - 0.023 cm/cm	0.017 - 0.023 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	DIN 53505; ASTM D785
Tensile Strength, Ultimate	58.8 MPa	8530 psi	DIN 53455; ASTM D638
Elongation at Break	100 %	100 %	DIN 53455; ASTM D638
Flexural Yield Strength	88.3 MPa	12800 psi	DIN 53455; ASTM D790
Flexural Modulus	2.45 GPa	356 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	80.0 $\mu\text{m/m}\cdot\text{Â}^\circ\text{C}$	44.4 $\mu\text{in/in}\cdot\text{Â}^\circ\text{F}$	DIN 53752; ASTM D696
	@Temperature 20.0 $\text{Â}^\circ\text{C}$	@Temperature 68.0 $\text{Â}^\circ\text{F}$	
Melting Point	224 $\text{Â}^\circ\text{C}$	435 $\text{Â}^\circ\text{F}$	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	155 $\text{Â}^\circ\text{C}$	311 $\text{Â}^\circ\text{F}$	DIN 53461; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 $\text{Â}^\circ\text{C}$	140 $\text{Â}^\circ\text{F}$	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	28.0 kV/mm	711 kV/in	ASTM D149/DIN 53481
Arc Resistance	120 sec	120 sec	ASTM D495

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