

Kolon SPESINÂ® KP213G15SIBL Glass Fiber Reinforced PBT Compound Resin

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

G/F 15%, high toughness, excellent surfaceApplications: Various types of housingsInformation provided by API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-SPESIN-KP213G15SIBL-Glass-Fiber-Reinforced-PBT-Compound-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.050 %	0.050 %	60% RH; ASTM D570
Linear Mold Shrinkage	0.0070 - 0.011 cm/cm	0.0070 - 0.011 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength	103 MPa	14900 psi	ASTM D638
Elongation at Break	7.0 %	7.0 %	ASTM D638
Flexural Strength	172 MPa	24900 psi	ASTM D790
Flexural Modulus	5.394 GPa	782.3 ksi	ASTM D790
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 $\mu\text{m/m-}^{\circ}\text{C}$	22.2 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
Melting Point	224 $^{\circ}\text{C}$	435 $^{\circ}\text{F}$	ASTM D1525
Deflection Temperature at 0.46 MPa (66 psi)	220 $^{\circ}\text{C}$	428 $^{\circ}\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 $^{\circ}\text{C}$	401 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.2	3.2	ASTM D150
Dielectric Strength	30.0 kV/mm	762 kV/in	ASTM D149
Arc Resistance	120 sec	120 sec	ASTM D495

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