

Kolon SPESINÂ® KP513UG PBT Alloy Resin

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

Material Notes:

Extrudable, delusteringApplications: Mono filamentInformation provided by API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-SPESIN-KP513UG-PBT-Alloy-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.080 %	0.080 %	60% RH; ASTM D570
Linear Mold Shrinkage	0.015 - 0.019 cm/cm	0.015 - 0.019 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength	68.0 MPa	9860 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Flexural Strength	79.0 MPa	11500 psi	ASTM D790
Flexural Modulus	0.196 GPa	28.4 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 $\mu\text{m}/\text{m}\cdot\text{Â}^\circ\text{C}$	22.2 $\mu\text{in}/\text{in}\cdot\text{Â}^\circ\text{F}$	ASTM D696
Melting Point	224 $\text{Â}^\circ\text{C}$	435 $\text{Â}^\circ\text{F}$	ASTM D1525
Deflection Temperature at 0.46 MPa (66 psi)	150 $\text{Â}^\circ\text{C}$	302 $\text{Â}^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 $\text{Â}^\circ\text{C}$	140 $\text{Â}^\circ\text{F}$	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7	3.7	ASTM D150
Dielectric Strength	27.0 kV/mm	686 kV/in	ASTM D149
Arc Resistance	110 sec	110 sec	ASTM D495

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