

Kolon SPELLOY® KA101 PC + PBT Alloy Resin (discontinued **)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

SPELLOY® is a new technology of thermoplastic Polymer alloys developed to provide unique combination of excellent mechanical properties. High impact resistance (at low temperature), good dimensional stability, high heat resistance. Information provided by US distributor, API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-SPELLOY-KA101-PC-PBT-Alloy-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	DIN 53479; ASTM D792
Water Absorption	0.15 %	0.15 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	DIN 53505; ASTM D785
Tensile Strength, Ultimate	51.0 MPa	7400 psi	DIN 53455; ASTM D638
Elongation at Break	200 %	200 %	DIN 53455; ASTM D638
Flexural Yield Strength	76.5 MPa	11100 psi	DIN 53455; ASTM D790
Flexural Modulus	1.86 GPa	270 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	6.37 J/cm	11.9 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70 µm/m-°C @Temperature 20.0 °C	39 µin/in-°F @Temperature 68.0 °F	DIN 53752; ASTM D696
Melting Point	220 °C	428 °F	DIN 53736; ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.99 @Frequency 1e+6 Hz	2.99 @Frequency 1e+6 Hz	ASTM D150/DIN 53483

Electrical Properties	Metric/mm	EnglishIn	CommentsJ/DIN 53481
Arc Resistance	120 sec	120 sec	ASTM D495

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