

Kolon KOPETÂ® KP133G45 FR-PET Resin

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 50% Glass Reinforced

Material Notes:

KOPETÂ® is the FR-PET which realizes the good properties and surface of injection molding with good mold process of short cooling time in low molding temperature. Good mold release, good surface of product, good harmonized mechanical properties with flame retardant. Information provided by US distributor, API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-KOPET-KP133G45-FR-PET-Resin.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	DIN 53479; ASTM D792
Water Absorption	0.050 %	0.050 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	DIN 53505; ASTM D785
Tensile Strength, Ultimate	142 MPa	20600 psi	DIN 53455; ASTM D638
Elongation at Break	4.0 %	4.0 %	DIN 53455; ASTM D638
Flexural Yield Strength	235 MPa	34100 psi	DIN 53455; ASTM D790
Flexural Modulus	9.81 GPa	1420 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	0.785 J/cm	1.47 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 Âµm/m-Â°C	13.9 Âµin/in-Â°F	DIN 53752; ASTM D696
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Melting Point	254 Â°C	489 Â°F	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	226 Â°C	439 Â°F	DIN 53461; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.9	3.9	ASTM D150/DIN 53483
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Electrical Properties	Metric //mm	English In	Comments //DIN 53481
Arc Resistance	120 sec	120 sec	ASTM D495

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