

Beijing Chemical Industry KAIFA® 3030F PET Resin

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

High mechanical strength, Creep resistant, Low friction, High crystallization
Information provided by Beijing Chemical Industry Research Institute (Group)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Beijing-Chemical-Industry-KAIFA-3030F-PET-Resin.php

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	ASTM D638
Flexural Strength	210 MPa	30500 psi	ASTM D790
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO179
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 3.20 mm	V-0 @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.5 @Frequency 1e+6 Hz	3.5 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	22.0 kV/mm @Thickness 2.00 mm	559 kV/in @Thickness 0.0787 in	ASTM D149
Dissipation Factor	0.020 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Processing Temperature	240 - 260 °C	464 - 500 °F	Injection Temp.

Processing Properties	^{120 °C} Metric	^{248 °F} English	Comments
Dry Time	4 - 8 hour	4 - 8 hour	
Injection Pressure	80.0 - 120 MPa	11600 - 17400 psi	
Back Pressure	8.00 - 18.0 MPa	1160 - 2610 psi	

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