

Beijing Chemical Industry KAIFA® 2030 PET Resin

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

Material Notes:

High mechanical strength, Creep resistant, Low friction 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-2030-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	125 MPa	18100 psi	ASTM D638
Flexural Strength	190 MPa	27600 psi	ASTM D790
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	ISO179
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	ASTM D648
Flammability, UL94	HB @Thickness 3.20 mm	HB @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	3.0 @Frequency 1e+6 Hz	3.0 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	21.0 kV/mm @Thickness 2.00 mm	533 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.
Drying Temperature	120 °C	248 °F	

Processing Properties Dry Time	Metric psi / 100 hour	English psi / 100 hour	Comments
Injection Pressure	80.0 - 120 MPa	11600 - 17400 psi	
Back Pressure	8.00 - 18.0 MPa	1160 - 2610 psi	

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