

Eastman Eastar Copolyester K3000 PETG Copolyester (discontinued **)

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

Material Notes:

EASTAR K3000 Copolyester is a cost effective, high-performance, water-clear material that provides the necessary performance for the appliance standards. Other desirable characteristics are good chemical resistance, stiffness, and low shrinkage. In addition, it is "molder friendly" and colors and tints easily. Applications: Refrigerator interior parts
 Technical Data Sheet Comments: Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform to the values given information provided by Eastman Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-Copolyester-K3000-PETG-Copolyester-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Ultimate	26.0 MPa	3770 psi	ASTM D638
	26.0 MPa	3770 psi	ISO 527
Tensile Strength, Yield	53.0 MPa	7690 psi	ASTM D638
	54.0 MPa	7830 psi	ISO 527
Elongation at Break	61 %	61 %	ISO 527
Elongation at Yield	4.0 %	4.0 %	ISO 527
Tensile Modulus	2.02 GPa	293 ksi	ISO 527
Flexural Yield Strength	74.0 MPa	10700 psi	ISO 178
	77.0 MPa	11200 psi	ASTM D790
Flexural Modulus	2.34 GPa	339 ksi	ISO 178
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256
	0.290 J/cm @Temperature -40.0 °C	0.543 ft-lb/in @Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	68.0 °C	154 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	61.0 °C	142 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	0.50 %	0.50 %	ASTM D1003
Transmission, Visible	89 %	89 %	Regular transmittance per ASTM D 1003
	91 %	91 %	Total Transmittance; ASTM D 1003

Processing Properties	Metric	English	Comments
Melt Temperature	282 °C	540 °F	
Mold Temperature	27.0 °C	80.6 °F	
Drying Temperature	102 °C	216 °F	
Dry Time	4 hour	4 hour	

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