

Eastman Eastar GN071 Natural PETG Copolyester

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

Material Notes:

EASTAR GN071 Copolyester is used for injection molding applications. It is sparkling clear, tough, chemical resistant, odor free, versatile, easy to work with and affordable. Cleaning solutions will not turn EASTAR GN071 white. Applications: Medical Preliminary Data Sheet

Comments: Properties reported here are based on limited testing. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given. Information provided by Eastman Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-GN071-Natural-PETG-Copolyester.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
Water Absorption	0.13 %	0.13 %	24 hour immersion; ASTM D570
Linear Mold Shrinkage, Flow	0.0035 cm/cm @Thickness 3.20 mm	0.0035 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength, Ultimate	27.0 MPa	3920 psi	ISO 527
	30.0 MPa	4350 psi	ASTM D638
Tensile Strength, Yield	49.0 MPa	7110 psi	ASTM D638 and ISO 527
Elongation at Break	110 %	110 %	ISO 527
Elongation at Yield	4.0 %	4.0 %	ISO 527
Tensile Modulus	2.02 GPa	293 ksi	ISO 527
Flexural Yield Strength	69.0 MPa	10000 psi	ISO 178
Flexural Modulus	2.10 GPa	305 ksi	ISO 178
Izod Impact, Notched	0.980 J/cm	1.84 ft-lb/in	ASTM D256
	0.270 J/cm @Temperature -40.0 °C	0.506 ft-lb/in @Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	69.0 °C	156 °F	ISO 75

Thermal Properties (Modulus at 1.8 MPa (264 psi))	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Haze	0.30 %	0.30 %	ASTM D1003
Transmission, Visible	91 %	91 %	Total Transmittance; ASTM D 1003

Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	
Mold Temperature	27.0 °C	80.6 °F	
Drying Temperature	71.0 °C	160 °F	
Dry Time	5 hour	5 hour	

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