

PolyOne Edgetek® X TR2-10GF/000 NATURAL Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

The Edgetek™ engineering thermoplastics compounds made with Eastman Tritan™ copolyester offer a wide range of performance and properties with the addition of reinforcing additives. By utilizing Eastman Tritan™ copolyester these compounds provide chemical resistance, clarity, heat resistance and BPA-free solutions. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-X-TR2-10GF000-NATURAL-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm @Thickness 3.18 mm	0.0020 - 0.0030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.1 MPa	7700 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	5.1 mm/min; ASTM D638
Elongation at Break	13 %	13 %	Type I, 5.1 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	5.1 mm/min; ASTM D638
Tensile Modulus	2.76 GPa	400 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	103 MPa	14900 psi	1.3 mm/min; ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.530 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.993 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Izod Impact, Unnotched	9.60 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	18.0 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 µm/m-°C @Temperature -30.0 - 30.0 °C	66.7 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM E831
CTE, linear, Transverse to Flow	200 µm/m-°C	111 µin/in-°F	ASTM E831

Thermal Properties	Metric @Temperature -30.0 - 30.0 °C	English @Temperature -22.0 - 86.0 °F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	116 °C @Thickness 3.18 mm	241 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	108 °C @Thickness 3.18 mm	226 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	266 - 282 °C	511 - 540 °F	
Mold Temperature	60.0 - 65.6 °C	140 - 150 °F	
Drying Temperature	87.8 °C	190 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Features	BPA Free	
	Crazing Resistant	
	Filled	
	Good Chemical Resistance	
	Good Crack Resistance	
	Good Dimensional Stability	
	Good Toughness	
	Medium Clarity	
	Medium Heat Resistance	
Filler / Reinforcement	Glass Fiber Reinforcement	
Forms	Pellets	
Generic Material	Copolyester	
Generic Name	Copolyester	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	

Descriptive Properties	North America Value	Comments
	South America	
Uses	Appliance Components	
	Consumer Applications	
	Food Service Applications	
	Household Goods	
	Industrial Applications	
	Transparent or Translucent Parts	

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