

Edgetek™ TR2-10GF/000 NATURAL Copolyester

Key Characteristics

Product Description

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.

General			
Material Status	Commercial: Active		
Regional Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Filler / Reinforcement	 Glass Fiber 		
Features	BPA FreeChemical ResistantCrack Resistant	 Crazing Resistant Filled Good Dimensional Stability	Good ToughnessMedium ClarityMedium Heat Resistance
Uses	Appliance ComponentsConsumer Applications	Food Service ApplicationsHousehold Goods	Industrial ApplicationsTransparent or Translucent Parts
Forms	Pellets		

Technical Properties 1

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.25	1.25	ASTM D792
Molding Shrinkage - Flow (0.125 in (3.18 mm))	2.0E-3 to 3.0E-3 in/in	0.20 to 0.30 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	400000 psi	2760 MPa	ASTM D638
Tensile Strength ³ (Yield)	8700 psi	60.0 MPa	ASTM D638
Tensile Strength ² (Break)	7700 psi	53.1 MPa	ASTM D638
Tensile Elongation ³ (Yield)	5.0 %	5.0 %	ASTM D638
Tensile Elongation ² (Break)	13 %	13 %	ASTM D638
Flexural Modulus ⁴	400000 psi	2760 MPa	ASTM D790
Flexural Strength ⁴	15000 psi	103 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	1.0 ft·lb/in	53 J/m	
Unnotched Izod Impact			ASTM D256
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	18 ft·lb/in	960 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in		440.00	
(3.18 mm)	241 °F	116 °C	
(3.18 mm) Deflection Temperature Under Load	241 °F	116°C	ASTM D648
,	241 F	116 °C	ASTM D648

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Rev: 2015-05-12 Page: 1 of 2

Edgetek™ TR2-10GF/000 NATURAL

Technical Data Sheet

Thermal	Typical Value (English)	Typical Value (SI)	Test Method
CLTE - Transverse (-22 to 86°F (-30 to 30°C))	1.1E-4 in/in/°F	2.0E-4 cm/cm/°C	ASTM E831

Processing Information

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Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	190 °F	88 °C	
Drying Time	4.0 hr	4.0 hr	
Processing (Melt) Temp	510 to 540 °F	266 to 282 °C	
Mold Temperature	140 to 150 °F	60 to 66 °C	

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

³ 0.20 in/min (5.1 mm/min)

4 0.050 in/min (1.3 mm/min)

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Rev: 2015-05-12 Page: 2 of 2