



Edgetek™ X TR2-20GF/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	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Features	• BPA Free • Chemical Resistant • Crack Resistant	• Craze Resistant • Filled • Good Dimensional Stability	• Good Toughness • Medium Clarity • Medium Heat Resistance
Uses	• Appliance Components • Consumer Applications	• Food Service Applications • Household Goods	• Industrial Applications • Transparent or Translucent Parts
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.32	1.32	ASTM D792
Molding Shrinkage - Flow (0.125 in (3.18 mm))	1.0E-3 to 1.5E-3 in/in	0.10 to 0.15 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	640000 psi	4410 MPa	ASTM D638
Tensile Strength ³ (Yield)	11000 psi	75.8 MPa	ASTM D638
Tensile Strength ² (Break)	11000 psi	75.8 MPa	ASTM D638
Tensile Elongation ³ (Yield)	4.0 %	4.0 %	ASTM D638
Tensile Elongation ² (Break)	5.0 %	5.0 %	ASTM D638
Flexural Modulus ⁴	600000 psi	4140 MPa	ASTM D790
Flexural Strength ⁴	18000 psi	124 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	1.5 ft·lb/in	80 J/m	ASTM D256A
Unnotched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	15 ft·lb/in	800 J/m	ASTM D256
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	243 °F	117 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	234 °F	112 °C	ASTM D648
CLTE - Flow (-22 to 86°F (-30 to 30°C))	4.1E-5 in/in/°F	7.4E-5 cm/cm/°C	ASTM E831

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

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)