



Edgetek™ X TR2-20TA/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	• Mineral		
Features	• BPA Free • Chemical Resistant • Crack Resistant	• Crazing Resistant • Filled • Good Dimensional Stability	• Good Toughness • Medium Clarity • Medium Heat Resistance
Uses	• Appliance Components • Consumer Applications	• Food Service Applications • Household Goods	• Industrial Applications
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.33	1.33	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	490000 psi	3380 MPa	ASTM D638
Tensile Strength ³ (Yield)	7500 psi	51.7 MPa	ASTM D638
Tensile Strength ² (Break)	5900 psi	40.7 MPa	ASTM D638
Tensile Elongation ³ (Yield)	5.0 %	5.0 %	ASTM D638
Tensile Elongation ² (Break)	30 %	30 %	ASTM D638
Flexural Modulus ⁴	440000 psi	3030 MPa	ASTM D790
Flexural Strength ⁴	13000 psi	89.6 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	1.4 ft-lb/in	75 J/m	ASTM D256A
Unnotched Izod Impact ⁵ 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	40 ft-lb/in	2100 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)	234 °F	112 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	217 °F	103 °C	ASTM D648
CLTE - Flow (-22 to 86°F (-30 to 30°C))	6.2E-5 in/in/°F	1.1E-4 cm/cm/°C	ASTM E831
CLTE - Transverse (-22 to 86°F (-30 to 30°C))	7.9E-5 in/in/°F	1.4E-4 cm/cm/°C	ASTM E831

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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)

⁵ Partial Break

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