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	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
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 • Transparent 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 (3.18 mm)	241 °F	116 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	226 °F	108 °C	
CLTE - Flow (-22 to 86°F (-30 to 30°C))	6.5E-5 in/in/°F	1.2E-4 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)

CONTACT INFORMATION

Americas

United States - Avon Lake
+1 440 930 1000

United States - McHenry
+1 815 385 8500

Asia

China - Guangzhou
+86 20 8732 7260

China - Shenzhen
+86 755 2969 2888

China - Suzhou
+86 512 6823 24 38

China - Suzhou
+86 512 6265 2600

Hong Kong -
+852 2690 5332

Taiwan - Yonghe City,
+886 9396 99740, +886 2929 1849

Europe

Germany - Gaggenau
+49 7225 6802 0

Spain - Barbastro (Huesca)
+34 974 310 314

Beyond Polymers.

Better Business Solutions. SM

www.polyone.com

PolyOne Americas
33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE

PolyOne Asia
No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 21 5080 1188

PolyOne Europe
6 Giällewee
+352 269 050 35