

Edgetek™ X TR2-20TA/000 NATURAL

Copolyester

PolyOne Corporation

Message:

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 Information			
Filler / Reinforcement	Mineral		
Features	BPA Free		
	Crazing Resistant		
	Filled		
	Good Chemical Resistance		
	Good Crack Resistance		
	Good Dimensional Stability		
	Good Toughness		
	Medium Clarity		
	Medium Heat Resistance		
Uses	Appliance Components		
	Consumer Applications		
	Food Service Applications		
	Household Goods		
	Industrial Applications		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20 to 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3380	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield ²	51.7	MPa	
Break ³	40.7	MPa	
Tensile Elongation			ASTM D638
Yield ⁴	5.0	%	
Break ⁵	30	%	
Flexural Modulus ⁶	3030	MPa	ASTM D790
Flexural Strength ⁷	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	75	J/m	ASTM D256A
Unnotched Izod Impact ⁸ (23°C, 3.18 mm, Injection Molded)	2100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	112	°C	
1.8 MPa, Unannealed, 3.18 mm	103	°C	
CLTE			ASTM E831
Flow : -30 to 30°C	1.1E-4	cm/cm/°C	
Transverse : -30 to 30°C	1.4E-4	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	87.8	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	266 to 282	°C	
Mold Temperature	60.0 to 65.6	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	5.1 mm/min		
3.	Type I, 5.1 mm/min		
4.	5.1 mm/min		
5.	Type I, 5.1 mm/min		
6.	1.3 mm/min		
7.	1.3 mm/min		
8.	Partial Break		

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