

Tritan™ TX1501HF

Copolyester

Eastman Chemical Company



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Technical Data

Product Description

Eastman Tritan™ copolyester TX1501HF is a high flow grade of Eastman Tritan™. Eastman Tritan™ copolyester TX1501HF has viscosity reductions of 40-50% relative to Eastman Tritan™ copolyester TX1001. Eastman Tritan™ copolyester TX1501HF contains a mold release derived from vegetable based sources. Other outstanding features include good toughness, hydrolytic stability, and heat and chemical resistance. Eastman Tritan™ copolyester TX1501HF may be used in repeated use food contact articles under United States Food and Drug Administration (FDA) regulations. Eastman Tritan™ copolyester TX1501HF is certified to NSF/ANSI Standard 51 for Food Equipment Materials and is also certified to NSF/ANSI Standard 61 - Drinking Water System Components-Health Effects.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E118289-100238009
Search for UL Yellow Card	• Eastman Chemical Company • Tritan™
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Additive	• Mold Release
Features	• Amorphous • Durable • Fast Molding Cycle • Food Contact Acceptable • Good Chemical Resistance • Good Mold Release • Good Processability • Good Toughness • High Clarity • High Flow • High Heat Resistance • High Impact Resistance • Hydrolytically Stable • Low Viscosity
Uses	• Appliances • Consumer Applications • Household Goods
Agency Ratings	• FDA Food Contact, Unspecified Rating • NSF 51 • NSF 61
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.18	1.18 g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.0050 to 0.0070 in/in	0.50 to 0.70 %	ASTM D955

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			
73°F (23°C)	228000 psi	1580 MPa	ASTM D638
73°F (23°C)	233000 psi	1600 MPa	ISO 527-2
Tensile Strength			
Yield, 73°F (23°C)	6240 psi	43.0 MPa	ASTM D638
Yield, 73°F (23°C)	6380 psi	44.0 MPa	ISO 527-2
Break, 73°F (23°C)	7540 psi	52.0 MPa	ASTM D638
Break, 73°F (23°C)	7110 psi	49.0 MPa	ISO 527-2
Tensile Elongation			
Yield, 73°F (23°C)	7.0 %	7.0 %	ASTM D638 ISO 527-2
Break, 73°F (23°C)	210 %	210 %	ASTM D638
Break, 73°F (23°C)	150 %	150 %	ISO 527-2
Flexural Modulus			
73°F (23°C)	228000 psi	1580 MPa	ASTM D790
73°F (23°C)	218000 psi	1500 MPa	ISO 178
Flexural Strength			
73°F (23°C)	8700 psi	60.0 MPa	ISO 178
Yield, 73°F (23°C)	9280 psi	64.0 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			
73°F (23°C)	16 ft·lb/in	860 J/m	ASTM D256
-40°F (-40°C)	5.2 ft·lb/in ²	11 kJ/m ²	ISO 180
73°F (23°C)	39 ft·lb/in ²	83 kJ/m ²	ISO 180
Unnotched Izod Impact (73°F (23°C))	No Break	No Break	ASTM D4812
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale, 73°F (23°C))	111	111	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	201 °F	94.0 °C	
264 psi (1.8 MPa), Unannealed	178 °F	81.0 °C	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Transmittance (Total)	91.0 %	91.0 %	ASTM D1003
Haze	< 1.0 %	< 1.0 %	ASTM D1003
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	190 °F	88.0 °C	
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr	
Processing (Melt) Temp	500 to 540 °F	260 to 282 °C	
Mold Temperature	100 to 151 °F	38.0 to 66.0 °C	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

Where to Buy

Supplier

Eastman Chemical Company
Kingsport, TN USA
Telephone: 800-327-8626
Web: <http://www.eastman.com/>

Distributor

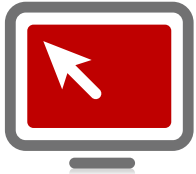
Amco Polymers
Telephone: 800-262-6685
Web: <http://www.amcopolymers.com/>
Availability: North America

Nexeo Solutions
Telephone: 888-594-6009
Web: <http://www.nexeosolutions.com/>
Availability: North America

PolyOne Distribution
PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country.
Telephone: 800-894-4266
Web: <http://polyonedistribution.com/>
Availability: Global



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