

Eastman Tritan TX1500HF Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Eastman Tritan TX1500HF is a high flow grade of Eastman Tritan. Eastman Tritan TX1500HF has viscosity reductions of 40-50% relative to Eastman Tritan copolyester TX1000. Other outstanding features include good toughness, hydrolytic stability, and heat and chemical resistance. Application/Uses Appliances Consumer goods Durable goods Housewares Key Attributes Ease of processing Excellent clarity Excellent hydrolytic stability Fast drying times Good chemical resistance Good flowability Good heat resistance Outstanding impact resistance Quick cycle times Typical properties as listed are from preliminary data. Information was provided by Eastman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Tritan-TX1500HF-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ASTM D785
Tensile Strength at Break	52.0 MPa	7540 psi	ASTM D638
Tensile Strength, Yield	43.0 MPa	6240 psi	ASTM D638
Elongation at Break	210 %	210 %	ASTM D638
Elongation at Yield	7.0 %	7.0 %	ASTM D638
Tensile Modulus	1.575 GPa	228.4 ksi	ASTM D638
Flexural Yield Strength	64.0 MPa	9280 psi	ASTM D790
Flexural Modulus	1.575 GPa	228.4 ksi	ASTM D790
Izod Impact, Notched	8.60 J/cm	16.1 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	94.0 °C	201 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	ASTM D648

Optical Properties	Metric	English	Comments
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Haze Optical Properties	$\leq 1.0\%$ Metric	$\leq 1.0\%$ English	ASTM D1003 Comments
Transmission, Visible	91 %	91 %	ASTM D1003

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	Repeated use food contact articles
NSF	Yes	Yes	Food equipment materials; NSF/ANSI Standard 51

Processing Properties	Metric	English	Comments
Processing Temperature	260 - 282 °C	500 - 540 °F	
Mold Temperature	38.0 - 66.0 °C	100 - 151 °F	
Drying Temperature	88.0 °C	190 °F	
Dry Time	4 - 6 hour	4 - 6 hour	

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