

Eastman Tritan WX500 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Eastman Tritan WX500 is a resin specifically developed for blow molded bottles. Extremely high melt strength makes the resin an excellent choice when manufacturing large bottles. This new-generation copolyester's most outstanding features are excellent toughness, hydrolytic stability, and heat and chemical resistance. Application/Uses Extrusion blow molding Injection stretch blow molding Large refillable multi-use containers Key Attributes Ease of processing Excellent clarity Excellent hydrolytic stability Good chemical resistance Good heat resistance Outstanding impact resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Tritan-WX500-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength at Break	52.0 MPa	7540 psi	ASTM D638
Tensile Strength, Yield	45.0 MPa	6530 psi	ASTM D638
Elongation at Break	139 %	139 %	ASTM D638
Elongation at Yield	7.0 %	7.0 %	ASTM D638
Tensile Modulus	1.609 GPa	233.4 ksi	ASTM D638
Flexural Yield Strength	64.0 MPa	9280 psi	ASTM D790
Flexural Modulus	1.522 GPa	220.7 ksi	ASTM D790
Izod Impact, Notched	8.42 J/cm	15.8 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Puncture Energy	62.0 J	45.7 ft-lb	Energy @ Max. Load; ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	65.0 J	47.9 ft-lb	
Puncture Energy	65.0 J	47.9 ft-lb	Energy @ Max. Load; ASTM D3763
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	67.0 J	49.4 ft-lb	
Puncture Energy	67.0 J	49.4 ft-lb	Energy @ Max. Load; ASTM D3763
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	101 °C	214 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Transmission, Visible	91 %	91 %	ASTM D1003

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	Repeated use food contact articles

Processing Properties	Metric	English	Comments
Processing Temperature	235 - 255 °C	455 - 491 °F	EBM Processing Melt Temp.
	260 - 280 °C	500 - 536 °F	ISBM Processing Melt Temp.
Mold Temperature	15.0 - 50.0 °C	59.0 - 122 °F	EBM Blow Mold Temp.
	35.0 - 55.0 °C	95.0 - 131 °F	ISBM Blow Mold Temp.
	40.0 - 65.0 °C	104 - 149 °F	ISBM Injection Mold Temp.
Drying Temperature	88.0 °C	190 °F	
Dry Time	4 - 6 hour	4 - 6 hour	

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