

Eastman Tritan TX1801 Copolyester, Natural

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Applications: Consumer and durable goods
Extrusion blow molding
Injection stretch blow molding
Key Attributes: Ease of processing
 Excellent clarity
 Excellent Hydrolytic stability
 Good chemical resistance
 Good heat resistance
 Outstanding impact resistance
Product Description: Eastman Tritan Copolyester TX1801 is an amorphous copolyester specifically developed for use in blow molding applications. Eastman Tritan Copolyester TX1801 contains a mold release derived from vegetable based sources. Its most outstanding features are excellent toughness, hydrolytic stability, heat resistance, and chemical resistance. In addition, this new generation copolyester offers excellent appearance and clarity. Eastman Tritan Copolyester TX1801 may be used in repeated use food contact articles under United States Food and Drug Administration (FDA) regulations. Information provided by Eastman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Tritan-TX1801-Copolyester-Natural.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 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	at Max load; ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Puncture Energy	65.0 J	47.9 ft-lb	at Max load; ASTM D3763
	@Temperature 0.000 °C	@Temperature 32.0 °F	

Mechanical Properties	67.0 J Metric	49.4 ft-lb English	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	; ASTM D3763

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 %	Total; ASTM D1003

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

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