

Eastman Tritan EX401 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Eastman Tritan EX401 is an amorphous copolyester with excellent appearance and clarity. Tritan EX401 contains a mold release derived from vegetable based sources. Its most outstanding features are excellent toughness, hydrolytic stability, and heat and chemical resistance. Tritan EX401 was specifically developed for the infant care market using Eastman's knowledge of copolyester chemistry. Tritan EX401 can be converted into parts using injection molding and extrusion blow molding techniques. Application/Uses Infant Care Key Attributes Ease of Processing Excellent clarity Excellent hydrolytic stability Good chemical resistance Good heat resistance Outstanding impact resistance Information was provided by Eastman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Tritan-EX401-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 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	115	115	ASTM D785
Tensile Strength at Break	53.0 MPa	7690 psi	ASTM D638
Tensile Strength, Yield	44.0 MPa	6380 psi	ASTM D638
Elongation at Break	140 %	140 %	ASTM D638
Elongation at Yield	7.0 %	7.0 %	ASTM D638
Flexural Yield Strength	66.0 MPa	9570 psi	ASTM D790
Flexural Modulus	1.585 GPa	229.9 ksi	ASTM D790
Izod Impact, Notched	1.26 J/cm @Temperature -40.0 °C	2.36 ft-lb/in @Temperature -40.0 °F	ASTM D256
	6.50 J/cm @Temperature 23.0 °C	12.2 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ASTM D4812
	NB @Temperature -40.0 °C	NB @Temperature -40.0 °F	ASTM D4812
	59.0 J	43.5 ft-lb	

Puncture Energy Mechanical Properties	Metric	English	Energy @ Max. Load; ASTM D3763 Comments
	63.0 J @Temperature 23.0 °C	46.5 ft-lb @Temperature 73.4 °F	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)	109 °C	228 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	92.0 °C	198 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Transmission, Visible	92 %	92 %	ASTM D1003

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

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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