

Eastman Tritan MX710 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Eastman Tritan Copolyester MX710 is an amorphous product with excellent appearance and clarity. Eastman Tritan Copolyester MX710 has many outstanding features that include excellent toughness, hydrolytic stability, heat resistance, and chemical resistance. Eastman Tritan MX710 has been formulated for medical devices. Application/Uses Blood therapy IV components Key Attributes Ease of processing Excellent clarity Excellent hydrolytic stability Fast cycle times Fast drying times Good chemical resistance Good color stability upon ETO sterilization Good color stability upon gamma sterilization Good heat resistance Outstanding impact resistance 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-MX710-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	112	112	ASTM D785
Tensile Strength at Break	53.0 MPa	7690 psi	ASTM D638
Tensile Strength, Yield	43.0 MPa	6240 psi	ASTM D638
Elongation at Break	210 %	210 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Tensile Modulus	1.55 GPa	225 ksi	ASTM D638
Flexural Yield Strength	62.0 MPa	8990 psi	ASTM D790
Flexural Modulus	1.55 GPa	225 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	9.80 J/cm	18.4 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	NB	NB	ASTM D4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	ASTM D4812

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
Puncture Energy	61.0 J	45.0 ft-lb	Energy @ Max. Load; ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	66.0 J	48.7 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)	99.0 °C	210 °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	90 %	90 %	ASTM D1003

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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