

Eastman Tritan MX731 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Eastman Tritan Copolyester MX731 is an amorphous product with excellent appearance and clarity. Eastman Tritan Copolyester MX731 is a high flow medical grade of Eastman Tritan that has viscosity reductions of 40-50% relative to Eastman Tritan Copolyester MX711. Eastman Tritan Copolyester MX731 contains a mold release derives from vegetable based sources. Eastman Tritan Copolyester MX731 has many outstanding features that include excellent toughness, hydrolytic stability, heat resistance, chemical resistance, and melt flowability. Eastman Tritan Copolyester MX731 has been formulated for medical devices. Eastman Tritan Copolyester MX731 has been tested for FDA/ISO 10993 and USP Class VI Biological Evaluation testing after Gamma and ETO sterilization. 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, Good melt flowability, Good toughness.

Information was provided by Eastman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Tritan-MX731-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

Thermal Properties <small>Deflection Temperature at 1.8 MPa (264 psi)</small>	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Transmission, Visible	91 %	91 %	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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China