

Eastman Eastar MB002 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Eastar copolyester MB002 is a resin specifically developed for extrusion blow molding containers in medical applications where aesthetics such as high clarity and gloss, coupled with high toughness and chemical resistance, are desirable. Compared to many commonly used materials, Eastar copolyester MB002 runs on most standard processing equipment with broader processing conditions, and its toughness and melt strength enable blow molding of larger containers with greater design flexibility. This product meets the biocompatibility requirements under FDA/ISO 10993 and USP Class 6, Plastics.Applications/UsesMedical

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-MB002-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength at Break	48.0 MPa	6960 psi	ASTM D638
Tensile Strength, Yield	47.0 MPa	6820 psi	ASTM D638
Elongation at Break	300 %	300 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Tensile Modulus	1.90 GPa	276 ksi	ASTM D638
Flexural Strength	65.0 MPa	9430 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	0.630 J/cm	1.18 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Unnotched	NB	NB	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	NB	NB	ASTM D4812
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Puncture Energy	41.0 J	30.2 ft-lb	Puncture Resistance @Max Load, 0°C; ASTM D3763

Mechanical Properties	Metric	English	Comments
	31.0 J	30.2 ft-lb	Puncture Resistance @ Max Load, 23 °C; ASTM D3763
	39.0 J @Temperature -40.0 °C	28.8 ft-lb @Temperature -40.0 °F	Puncture Resistance at Max Load; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	73.0 °C	163 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 °C	145 °F	ASTM D648
Vicat Softening Point	85.0 °C	185 °F	1kg load; ASTM D1525

Optical Properties	Metric	English	Comments
Haze	1.3 %	1.3 %	ASTM D1003
Gloss	143 %	143 %	at 60°; ASTM D2457
Transmission, Visible	87 %	87 %	Regular Transmittance; ASTM D1003
	91 %	91 %	Total Transmittance; ASTM D1003

Descriptive Properties	Value	Comments
Color, CIE a*	-0.2	ASTM D2244
Color, CIE b*	0.6	ASTM D2244
Color, CIE L*	95	ASTM D2244

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