Eastar™ MB002

Copolyester

Eastman Chemical Company

Message:

Eastar™ copolyester MB002 has been tested for FDA/ISO 10993 and USP Class VI Biological Evaluation testing after Gamma and EtO sterilization. It 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.
This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.
The GREENGUARD INDOOR AIR QUALITY CERTIFIED® Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute (GEI). GEI is an industry-independent, non-profit organization that oversees the GREENGUARD Certification Program. The GREENGUARD Certification Program is an industry independent, third-party testing program for low-emitting products and materials for indoor environments. For more information about GEI and to obtain printable certificates for Eastman™ Copolyesters, visit www.greenguard.org. Choose Eastman Chemical Company under the Manufacturer category and click search to display a list of our products.

General Information	
Features	Autoclave Sterilizable
	Biocompatible
	Good Chemical Resistance
	Good Color Stability
	Good Melt Strength
	High Clarity
	High Gloss
	Radiation Sterilizable
	Ultra High Toughness
Uses	Blown Containers
	Containers
	Labware
	Medical/Healthcare Applications
Agency Ratings	ISO 10993
	USP Class VI
Forms	Pellets
Processing Method	Extrusion Blow Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955
Color			ASTM D2244
a	-0.20		
b	0.60		

L	95		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1900	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	47.0	MPa	
Break, 23°C	48.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	5.0	%	
Break, 23°C	300	%	
Flexural Modulus (23°C)	1900	MPa	ASTM D790
Flexural Strength (23°C)	65.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	63	J/m	
23°C	No Break		
Unnotched Izod Impact			ASTM D4218
-40°C	No Break		
23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	39.0	J	
0°C, Energy at Peak Load	41.0	J	
23°C, Energy at Peak Load	41.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	73.0	°C	
1.8 MPa, Unannealed	63.0	°C	
Vicat Softening Temperature	85.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	143		ASTM D2457
Transmittance			ASTM D1003
Regular	87.0	%	
Total	91.0	%	
Haze	1.3	%	ASTM D1003

Recommended distributors for this material

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