Eastar™ MN210, Natural

Copolyester

Eastman Chemical Company

Message:

Eastar™ Copolyester MN210 has been tested for FDA/ISO 10993 and USP Class VI Biological Evaluation testing after Gamma and EtO sterilization. Eastar™ copolyesters are brilliantly clear polymers that have excellent impact strength, chemical resistance, dimensional stability, and low shrinkage rates. This product does not contain a mold release.
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	E-beam Sterilizable		
	Good Chemical Resistance		
	Good Color Stability		
	Good Dimensional Stability		
	Good Impact Resistance		
	High Clarity		
	Low Shrinkage		
	Radiation Sterilizable		
Uses	Medical Packaging		
	Medical/Healthcare Applications		
Agency Ratings	ISO 10993		
	USP Class VI		
Appearance	Natural Color		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.27	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.13	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 23°C)	106		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, 23°C	50.0	MPa	
Break, 23°C	28.0	MPa	
Tensile Elongation			ASTM D638

Yield, 23°C	4.0	%	
Break, 23°C	110	%	
Flexural Modulus (23°C)	2100	MPa	ASTM D790
Flexural Strength (23°C)	70.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°C	37	J/m	
23°C	100	J/m	
Unnotched Izod Impact			ASTM D4218
-40°C	No Break		
23°C	No Break		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	70.0	°C	
1.8 MPa, Unannealed	63.0	°C	
Vicat Softening Temperature	85.0	°C	ASTM D1525
Thermal Conductivity (23°C)	0.19	W/m/K	
Injection	**Nominal Value**	**Unit**	
Drying Temperature	71.0	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	249 to 271	°C	
Mold Temperature	16.0 to 38.0	°C	

Recommended distributors for this material

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