Eastar™ MN052

Copolyester

Eastman Chemical Company

Message:

Eastar™ Polyester MN052 has been tested for FDA/ISO 10993 and USP Class VI Biological Evaluation testing after Gamma and EtO sterilization. Eastar™ Polyester MN052 does not contain a mold release. It has a relatively high flex modulus and yield strength. This product has high flow characteristics. 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	Crystalline		
	E-beam Sterilizable		
	Good Chemical Resistance		
	Good Color Stability		
	High Flow		
	High Strength		
	Homopolymer		
	Radiation Sterilizable		
Uses	Labware		
	Medical/Healthcare Applications		
Agency Ratings	ISO 10993		
	USP Class VI		
Appearance	Natural Color		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.32	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 23°C)	110		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, 23°C	57.0	MPa	
Break, 23°C	26.0	MPa	
Tensile Elongation (Yield, 23°C)	4.0	%	ASTM D638

Flexural Modulus (23°C)	2500	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	81.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°C	36	J/m	
23°C	51	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	66.0	°C	
1.8 MPa, Unannealed	62.0	°C	
Vicat Softening Temperature	79.0	°C	ASTM D1525 [1]
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength [2] (23°C)	16	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
23°C, 1 kHz	3.20		
23°C, 1 MHz	3.00		
Dissipation Factor			ASTM D150
23°C, 1 kHz	8.0E-3		
23°C, 1 MHz	0.020		
Arc Resistance	155	sec	ASTM D495
Injection	**Nominal Value**	**Unit**	
Drying Temperature	150 to 160	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	275 to 295	°C	
Mold Temperature	10.0 to 30.0	°C	
NOTE			
1.	Loading 1 (10 N)		
2.	Method A (Short-Time)		

Recommended distributors for this material

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