

Eastar™ MN021 Natural

Copolyester
Eastman Chemical Company

Message:

Eastar™ Copolyester MN021 Natural has been tested for FDA/ISO 10993 and USP Class VI Biological Evaluation testing after Gamma and EtO sterilization. It is a thermoplastic condensation copolymer produced by a continuous melt-phase polymerization process followed by a solid-state polymerization process. It has been crystallized.

This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

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General Information			
Features	Copolymer		
	Crystalline		
	E-beam Sterilizable		
	Good Chemical Resistance		
	Good Color Stability		
	Radiation Sterilizable		
Uses	Labware		
	Medical/Healthcare Applications		
Agency Ratings	ISO 10993		
	USP Class VI		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2400	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	58.0	MPa	
Break, 23°C	25.0	MPa	
Tensile Elongation (Break, 23°C)	120	%	ASTM D638
Flexural Modulus (23°C)	2500	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	84.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			ASTM D256
-40°C	27	J/m	
23°C	40	J/m	
Unnotched Izod Impact			ASTM D4218
-40°C	No Break		
-30°C	No Break		
-20°C	No Break		
23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-40°C, 2.50 mm, Energy at Peak Load	1.60	J	
-40°C, 3.20 mm, Energy at Peak Load	2.10	J	
23°C, 2.50 mm, Energy at Peak Load	26.0	J	
23°C, 3.20 mm, Energy at Peak Load	31.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	69.0	°C	
1.8 MPa, Unannealed	65.0	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	84.0	%	ASTM D1003
Haze	1.0	%	ASTM D1003
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	

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