

Eastar™ MN211, Natural

Copolyester
Eastman Chemical Company

Message:

Eastar™ Copolyester MN211 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. MN211 contains a mold release.

This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

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General Information			
Additive	Mold Release		
Features	E-beam Sterilizable		
	Good Chemical Resistance		
	Good Color Stability		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Mold Release		
	High Clarity		
	Low Shrinkage		
	Radiation Sterilizable		
Uses	Medical/Healthcare Applications		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	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	4.3	%	
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
Specific Heat			ASTM D2766
60°C	1300	J/kg/°C	
240°C	2010	J/kg/°C	
Thermal Conductivity (23°C)	0.19	W/m/K	
Optical	Nominal Value	Unit	Test Method
Transmittance			ASTM D1003
Total	91.0	%	
Regular	88.0	%	
Haze	0.30	%	ASTM D1003
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	

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Recommended distributors for this material

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