

Eastar™ MN059 Natural

Copolyester
Eastman Chemical Company

Message:

Eastar™ copolyesters are brilliantly clear polymers that have excellent impact strength, chemical resistance, dimensional stability, and low shrinkage rates. Eastar™ Copolyester MN059 Natural is a medical grade material that contains a mold release. This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

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General Information			
Additive	Mold Release		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Mold Release		
	High Clarity		
	Low Shrinkage		
Uses	Medical/Healthcare Applications		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.19	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	111		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	58.0	MPa	
Break, 23°C	24.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	4.0	%	
Break, 23°C	90	%	
Flexural Modulus (23°C)	2400	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	78.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256

-40°C	33	J/m	
23°C	56	J/m	
Unnotched Izod Impact			ASTM D4812
-40°C	2400	J/m	
23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	38.0	J	
23°C, Energy at Peak Load	32.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	69.0	°C	
1.8 MPa, Unannealed	63.0	°C	
Vicat Softening Temperature	80.0	°C	ASTM D1525 ¹
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	82.0	%	ASTM D1003
Haze	< 1.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	277 to 293	°C	
Mold Temperature	16.0 to 32.0	°C	
NOTE			
1.	Loading 1 (10 N)		

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Recommended distributors for this material

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