

# Eastar™ MN200, Natural

## Copolyester

Eastman Chemical Company

### Message:

Eastar™ Copolyester MN200 is an amorphous copolyester with excellent flow characteristics as well as radiation resistance and chemical resistance. This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

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General Information			
Features	Amorphous		
	Good Chemical Resistance		
	Good Flow		
	Radiation (Gamma) Resistant		
Uses	Medical/Healthcare Applications		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow			ASTM D955
1.60 mm	0.50	%	
3.20 mm	0.20	%	
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 (Break, 23°C)	25.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	30	%	ASTM D638
Flexural Modulus (23°C)	2200	MPa	ASTM D790
Flexural Strength (23°C)	75.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	28	J/m	
23°C	69	J/m	
Unnotched Izod Impact			ASTM D4218
-40°C	2600	J/m	
23°C	No Break		
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	
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	90.0	%	ASTM D1003
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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