

Eastar™ MN200 Natural

Copolyester

Eastman Chemical Company

Technical Data

Product Description

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®.

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.

Applications

- Medical devices

General

Features	<ul style="list-style-type: none">• Amorphous• Chemical Resistant	<ul style="list-style-type: none">• Good Flow• Low Emissions	<ul style="list-style-type: none">• Radiation (Gamma) Resistant
Uses	<ul style="list-style-type: none">• Medical Devices		

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.28 g/cm³	ASTM D792
Molding Shrinkage - Flow		ASTM D955
23°C, 1.60 mm	0.50 %	
23°C, 3.20 mm	0.20 %	
Water Absorption (24 hr, 23°C, 50% RH)	0.13 %	ASTM D570
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 D4812
-40°C	2600 J/m	
23°C	No Break	
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	106	ASTM D785
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
Light Transmittance (Total)	90.0 %	ASTM D1003
Haze	0.300 %	ASTM D1003

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Injection	Nominal Value Unit
Drying Temperature	71 °C
Drying Time	4.0 to 6.0 hr
Processing (Melt) Temp	249 to 271 °C
Mold Temperature	16 to 38 °C

Notes

- ¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- ² Typical properties: these are not to be construed as specifications.