

Eastman DuraStar MN620 Polymer, Natural

Category : Polymer

Material Notes:

Applications: Blood therapy Drug delivery IV components Medical Surgical instruments Key Attributes: Chemical resistance to most medical solvents including lipids and IPA Product Description: DuraStar Polymer MN260 requires minimal drying time. It has superior toughness, high clarity and good chemical resistance. This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®. Information provided by Eastman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-DuraStar-MN620-Polymer-Natural.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 - 0.0060 cm/cm @Thickness 3.20 mm	0.0020 - 0.0060 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength at Break	53.0 MPa	7690 psi	ASTM D638
Tensile Strength, Yield	46.0 MPa	6670 psi	ASTM D638
Elongation at Break	310 %	310 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Strength	67.0 MPa	9720 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	0.600 J/cm @Temperature -40.0 °C	1.12 ft-lb/in @Temperature -40.0 °F	ASTM D256
	3.70 J/cm @Temperature 23.0 °C	6.93 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ASTM D4812
	NB @Temperature -40.0 °C	NB @Temperature -40.0 °F	ASTM D4812

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	48.0 J	35.4 ft-lb	At Max load; ASTM D3763
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	73.0 °C	163 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	0.30 %	0.30 %	ASTM D1003
Transmission, Visible	89 %	89 %	Regular; ASTM D1003
	91 %	91 %	Total; ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 290 °C	482 - 554 °F	
Mold Temperature	15.0 - 30.0 °C	59.0 - 86.0 °F	
Drying Temperature	70.0 °C	158 °F	
Dry Time	3 hour	3 hour	

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