

Eastman Eastar MN211 Copolyester, Natural

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Eastar copolyesters are brilliantly clear polymers that have excellent impact strength, chemical resistance, dimensional stability, and low shrinkage rates. MN211 contains a mold release. Applications/Uses Medical

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-MN211-Copolyester-Natural.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Water Absorption	0.13 %	0.13 %	24h Immersion; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm @Thickness 3.20 mm	0.0020 - 0.0050 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength at Break	28.0 MPa	4060 psi	ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	110 %	110 %	ASTM D638
Elongation at Yield	4.3 %	4.3 %	ASTM D638
Flexural Strength	70.0 MPa	10200 psi	ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
Izod Impact, Notched	0.370 J/cm @Temperature -40.0 °C	0.693 ft-lb/in @Temperature -40.0 °F	ASTM D256
	1.01 J/cm @Temperature 23.0 °C	1.89 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
	NB @Temperature -40.0 °C	NB @Temperature -40.0 °F	ASTM D4812

Thermal Properties	Metric	English	Comments
	1.30 J/g-°C	0.311 BTU/lb-°F	

Specific Heat Capacity Thermal Properties	Metric @ Temperature 60.0 °C	English @ Temperature 140 °F	DSC Comments
	2.01 J/g-°C	0.480 BTU/lb-°F	DSC
	@Temperature 240 °C	@Temperature 464 °F	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft²-°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 °C	145 °F	ASTM D648
Vicat Softening Point	85.0 °C	185 °F	1kg load; ASTM D1525

Optical Properties	Metric	English	Comments
Haze	0.30 %	0.30 %	ASTM D1003
Transmission, Visible	88 %	88 %	Regular Transmittance; ASTM D1003
	91 %	91 %	Total Transmittance; ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	249 - 271 °C	480 - 520 °F	
Mold Temperature	16.0 - 38.0 °C	60.8 - 100 °F	
Drying Temperature	71.0 °C	160 °F	
Dry Time	4 - 6 hour	4 - 6 hour	

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