

Eastman Eastar MN021 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Eastar copolyester MN021 is a thermoplastic condensation copolymer produced by a continuous melt-phase polymerization process followed by a solid-state polymerization process. It has been crystallized. Applications/Uses Medical

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-MN021-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength at Break	25.0 MPa	3630 psi	ASTM D638
Tensile Strength, Yield	58.0 MPa	8410 psi	ASTM D638
Elongation at Break	120 %	120 %	ASTM D638
Tensile Modulus	2.40 GPa	348 ksi	ASTM D638
Flexural Yield Strength	84.0 MPa	12200 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ASTM D790
Izod Impact, Notched	0.270 J/cm @Temperature -40.0 °C	0.506 ft-lb/in @Temperature -40.0 °F	ASTM D256
	0.400 J/cm @Temperature 23.0 °C	0.749 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
Puncture Energy	1.60 J @Thickness 2.50 mm, Temperature -40.0 °C	1.18 ft-lb @Thickness 0.0984 in, Temperature -40.0 °F	max load; ASTM D3763
	2.10 J @Thickness 3.20 mm, Temperature -40.0 °C	1.55 ft-lb @Thickness 0.126 in, Temperature -40.0 °F	max load; ASTM D3763
	26.0 J	19.2 ft-lb	

Mechanical Properties	Metric	English	Comments
	@Thickness 2.50 mm, Temperature 23.0 °C	@Thickness 0.0984 in, Temperature 73.4 °F	max load; ASTM D3763
	31.0 J	22.9 ft-lb	
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	max load; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	69.0 °C	156 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ASTM D1003
Transmission, Visible	84 %	84 %	Total Transmittance; ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	275 - 295 °C	527 - 563 °F	
Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	
Drying Temperature	150 - 160 °C	302 - 320 °F	
Dry Time	4 - 6 hour	4 - 6 hour	

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