

Eastman Eastar MN059 Copolyester

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. Eastar MN059 Copolyester is a medical grade material that contains a mold release. Applications/Uses Medical

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-MN059-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Water Absorption	0.19 %	0.19 %	24h Immersion; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ASTM D785
Tensile Strength at Break	24.0 MPa	3480 psi	ASTM D638
Tensile Strength, Yield	58.0 MPa	8410 psi	ASTM D638
Elongation at Break	90 %	90 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Yield Strength	78.0 MPa	11300 psi	ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790
Izod Impact, Notched	0.330 J/cm @Temperature -40.0 °C	0.618 ft-lb/in @Temperature -40.0 °F	ASTM D256
	0.560 J/cm @Temperature 23.0 °C	1.05 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
	24.46 J/cm @Temperature -40.0 °C	45.82 ft-lb/in @Temperature -40.0 °F	ASTM D4812
Puncture Energy	32.0 J	23.6 ft-lb	Puncture Resistance @Max Load, 23°C; ASTM D3763
	38.0 J @Temperature -40.0 °C	28.0 ft-lb @Temperature -40.0 °F	Puncture Resistance at 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)	63.0 °C	145 °F	ASTM D648
Vicat Softening Point	80.0 °C	176 °F	1kg load; ASTM D1525

Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Transmission, Visible	82 %	82 %	Total Transmittance; ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	277 - 293 °C	531 - 559 °F	
Mold Temperature	16.0 - 32.0 °C	60.8 - 89.6 °F	
Drying Temperature	160 °C	320 °F	
Dry Time	4 - 6 hour	4 - 6 hour	

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