

Eastman Eastar GN120 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Applications:AppliancesConsumer electronicsPersonal care and cosmeticsStationary suppliesKey Attributes:High clarity and transparencyHigh flow copolyesterToughProduct Description: Eastar GN120 Copolyester is a high flow product and contains a mold release. Other outstanding features of Eastar GN120 are easily maintained such as excellent appearance and clarity, good physical properties, chemical resistance, and easy processing. Eastar GN120 is for sale only in Asia as a high-flow formulation.Information provided by Eastman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-GN120-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ASTM D785
Tensile Strength at Break	24.0 MPa	3480 psi	ASTM D638
Tensile Strength, Yield	48.0 MPa	6960 psi	ASTM D638
Elongation at Break	75 %	75 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Strength	66.0 MPa	9570 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	0.460 J/cm @Temperature -40.0 °C	0.862 ft-lb/in @Temperature -40.0 °F	ASTM D256
	0.840 J/cm @Temperature 23.0 °C	1.57 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
Puncture Energy	35.0 J	25.8 ft-lb	At Max load; ASTM D3763

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	44.0 J	32.5 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)	68.0 °C	154 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	0.40 %	0.40 %	ASTM D1003
Transmission, Visible	91 %	91 %	Total; 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	6 hour	6 hour	

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