

Eastman Eastar DN001HF Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Applications: Displays Personal care and Cosmetics Product Description: Eastar Copolyester DN001HF has excellent flow characteristics while maintaining superior mechanical properties. It is easy to process and can fill intricate tools. Its most outstanding features are clarity, toughness and 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-Eastar-DN001HF-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Water Absorption	0.15 % @Time 86400 sec	0.15 % @Time 24.0 hour	Immersion; ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	104	104	ASTM D785
Tensile Strength at Break	38.0 MPa	5510 psi	ASTM D638
Tensile Strength, Yield	47.0 MPa	6820 psi	ASTM D638
Elongation at Break	260 %	260 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Strength	65.0 MPa	9430 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm @Temperature -40.0 °C	1.29 ft-lb/in @Temperature -40.0 °F	ASTM D256
	NB @Temperature 23.0 °C	NB @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
	46.0 J	33.9 ft-lb	At Max load; ASTM D3763
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	47.0 J	34.7 ft-lb	At Max load; ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	67.0 °C	153 °F	ASTM D648
Vicat Softening Point	84.0 °C	183 °F	ASTM D1525
	@Load 1.00 kg	@Load 2.20 lb	

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	Total; ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	15.0 - 30.0 °C	59.0 - 86.0 °F	
Drying Temperature	71.0 °C	160 °F	
Dry Time	6 hour	6 hour	

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