

Eastman Eastar AN011 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Eastar AN011 copolyester is a high flow product. Eastar AN011 flow lengths are increased 20-40% relative to Eastar AN001 as shown by spiral flow testing. Other outstanding features of Eastar are easily maintained such as excellent appearance and clarity, good physical properties, chemical resistance, and easy processing. This high flow product is especially suited for those applications utilizing thin-walled intricate tools. Under existing United States Food and Drug Administration (FDA) regulations, Eastar AN011 may be used in food contact articles which comply with the specifications and conditions of use in 21 CFR 177.1240. Applications/UsesCosmetics/personal care packagingFragrance packaging

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-AN011-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	24h Immersion; ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ASTM D785
Tensile Strength at Break	43.0 MPa	6240 psi	ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	270 %	270 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Yield Strength	68.0 MPa	9860 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	0.440 J/cm @Temperature -40.0 °C	0.824 ft-lb/in @Temperature -40.0 °F	ASTM D256
	0.800 J/cm @Temperature 23.0 °C	1.50 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 Mechanical Properties	40.0 J Metric	29.5 ft-lb English	Puncture Resistance @ Max Load, 23 °C, ASTM D3763 Comments
	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)	73.0 °C	163 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	66.0 °C	151 °F	ASTM D648
Vicat Softening Point	86.0 °C	187 °F	1kg load; ASTM D1525

Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Transmission, Visible	92 %	92 %	Total Transmittance; ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 280 °C	446 - 536 °F	
Mold Temperature	15.0 - 30.0 °C	59.0 - 86.0 °F	
Drying Temperature	70.0 °C	158 °F	
Dry Time	4 hour	4 hour	

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