

Eastman Eastar EN059 Copolyester, Natural

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Applications:Cosmetics/personal care packagingDeodorant PackagingFragrance packagingOral hygienePlastics for hygiene feminine productsToothbrushesToys/Sporting goodsWriting instrumentsProduct Description: Tailored to meet the needs of injection-molding market, Eastar Copolyesters are clear materials with good mechanical properties and chemical resistance to a variety of substances. 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-EN059-Copolyester-Natural.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Water Absorption	0.19 % @Time 86400 sec	0.19 % @Time 24.0 hour	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 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	24.46 J/cm @Temperature -40.0 °C	45.82 ft-lb/in @Temperature -40.0 °F	ASTM D4812
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ASTM D4812

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	38.0 J	28.0 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)	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	ASTM D1525
	@Load 1.00 kg	@Load 2.20 lb	

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