

Eastman Eastar EN067 Copolyester, Natural

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Eastar Copolyester EN067 is a copolymer PET with good color. This product is supplied as a crystalline pellet that has improved flowability characteristics. Due to slower crystallization kinetics, this product is capable of producing a part free of crystalline haze upon injection molding. Applications/Uses: Cosmetics/personal care packaging, Deodorant packaging, Point of purchase displays, Toys/Sporting goods, Toothbrushes, Writing instruments.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-EN067-Copolyester-Natural.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm @Thickness 3.20 mm	0.0020 - 0.0050 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength at Break	24.0 MPa	3480 psi	ASTM D638
Tensile Strength, Yield	57.0 MPa	8270 psi	ASTM D638
Elongation at Break	134 %	134 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Strength	81.0 MPa	11700 psi	ASTM D790
Flexural Modulus	2.60 GPa	377 ksi	ASTM D790
Izod Impact, Notched	0.290 J/cm @Temperature -40.0 °C	0.543 ft-lb/in @Temperature -40.0 °F	ASTM D256
	0.580 J/cm @Temperature 23.0 °C	1.09 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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa	66.0 °C	151 °F	ASTM D648

(56 psi) Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	61.0 °C	142 °F	ASTM D648

Optical Properties	Metric	English	Comments
Transmission, Visible	81 %	81 %	Regular Transmittance; ASTM D1003
	84 %	84 %	Total Transmittance; ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 °C	518 - 554 °F	
Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	
Drying Temperature	150 - 160 °C	302 - 320 °F	
Dry Time	4 - 6 hour	4 - 6 hour	

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