

Eastman Eastar EN076 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Eastar Copolyester EN076 is recommended for the thick-walled containers that are prevalent in the cosmetics and personal care markets. This copolyester offers good processability with the benefits of glass such as high clarity, brightness, and good color. Applications/UsesCosmetics/personal care packaging

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-EN076-Copolyester.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	0.0020 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ASTM D785
Tensile Strength at Break	26.0 MPa	3770 psi	ASTM D638
Tensile Strength, Yield	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	75 %	75 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Yield Strength	74.0 MPa	10700 psi	ASTM D790
Flexural Modulus	2.35 GPa	341 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
	0.670 J/cm @Temperature 23.0 °C	1.26 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
	3.20 J/cm @Temperature -40.0 °C	5.99 ft-lb/in @Temperature -40.0 °F	ASTM D4812
Puncture Energy	31.0 J	22.9 ft-lb	Puncture Resistance @Max Load, 23°C; ASTM D3763
	45.0 J @Temperature -40.0 °C	33.2 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)	69.0 °C	156 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	0.80 %	0.80 %	ASTM D1003
Transmission, Visible	86 %	86 %	Regular Transmittance; ASTM D1003
	89 %	89 %	Total Transmittance; 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	150 °C	302 °F	
Dry Time	4 - 6 hour	4 - 6 hour	

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