

Eastman Eastar EN010 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Eastar copolyester EN010 is used primarily in molded thick wall European applications.Applications/UsesPackagingInjection moldingContainers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-EN010-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 cm/cm @Thickness 3.20 mm	0.0030 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength at Break	30.0 MPa	4350 psi	ASTM D638
Tensile Strength, Yield	55.0 MPa	7980 psi	ASTM D638
Elongation at Break	125 %	125 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Yield Strength	76.0 MPa	11000 psi	ASTM D790
Flexural Modulus	2.44 GPa	354 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm @Temperature -40.0 °C	0.599 ft-lb/in @Temperature -40.0 °F	ASTM D256
	0.540 J/cm @Temperature 23.0 °C	1.01 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
	24.0 J/cm @Temperature -40.0 °C	45.0 ft-lb/in @Temperature -40.0 °F	ASTM D4812

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) Thermal Properties	60.0 °C Metric	140 °F English	ASTM D648 Comments
Processing Properties	Metric	English	Comments
Melt Temperature	275 - 295 °C	527 - 563 °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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