

Eastman Eastar EN063 Polyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

Eastar Polyester EN063 is a condensation polymer produced by a continuous melt-phase polymerization process followed by a solid-state polymerization process. Eastar Polyester EN063 is a homopolymer PET that has been crystallized. Applications/Uses Medical

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-EN063-Polyester.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	0.0030 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D785
Tensile Strength at Break	32.0 MPa	4640 psi	ASTM D638
Tensile Strength, Yield	58.0 MPa	8410 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Yield Strength	80.0 MPa	11600 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ASTM D790
Izod Impact, Notched	0.310 J/cm	0.581 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Unnotched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	NB	NB	ASTM D4812
	20.0 J/cm	37.5 ft-lb/in	
	@Temperature -40.0 °C	@Temperature -40.0 °F	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	71.0 °C	160 °F	ASTM D648
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	64.0 °C Metric	147 °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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