

Eastman Eastar EN058 PET Copolymer

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

ISO data as provided by the manufacturer, Eastman Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastar-EN058-PET-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	56.0 MPa	8120 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	3.8 %	3.8 %	
Tensile Modulus	2.40 GPa	348 ksi	1mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.270 J/cm ²	1.28 ft-lb/in ²	
	0.290 J/cm ²	1.38 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	76.0 µm/m-°C	42.2 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	71.0 µm/m-°C	39.4 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft ² -°F	
Melting Point	244 °C	471 °F	
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	

Deflection Temperature at 1.8 MPa (150 psi) Thermal Properties	63.0 °C Metric	145 °F English	Comments
Vicat Softening Point	74.0 °C	165 °F	
Glass Transition Temp, Tg	77.0 °C	171 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 °C	518 - 554 °F	

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