

Eastman Eastar DN001 PCTG Copolyester

Category : Polymer , Thermoplastic , Polyester, TP , Polycyclohexylenedimethylene Terephthalate (PCT) , Glycol-Modified PCT (PCTG) Copolyester

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-DN001-PCTG-Copolyester.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 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	45.0 MPa	6530 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	4.2 %	4.2 %	
Tensile Modulus	2.13 GPa	309 ksi	1mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.57 J/cm ²	7.47 ft-lb/in ²	
	0.480 J/cm ²	2.28 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	78.0 µm/m-°C	43.3 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	60.0 µm/m-°C	33.3 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.34 J/g-°C	0.320 BTU/lb-°F	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² -°F	
Deflection Temperature at 0.46 MPa (66 psi)	73.0 °C	163 °F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (264 psi)</small>	Metric	English	Comments
Vicat Softening Point	80.0 °C	176 °F	
Glass Transition Temp, Tg	83.0 °C	181 °F	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Processing Properties	Metric	English	Comments
Melt Temperature	275 - 295 °C	527 - 563 °F	

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