

Eastman Eastar DN102 PCTG Copolyester (discontinued **)

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-DN102-PCTG-Copolyester-nbspdiscontinued-.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	46.0 MPa	6670 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	4.4 %	4.4 %	
Tensile Modulus	2.09 GPa	303 ksi	1mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.830 J/cm ²	3.95 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	87.0 μm/m-°C	48.3 μin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	70.0 μm/m-°C	38.9 μin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	225 °C	437 °F	
Deflection Temperature at 0.46 MPa (66 psi)	78.0 °C	172 °F	
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	82.0 °C	180 °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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