

Eastman Eastalloy DA003 PC+PCTG Copolyester/Polycarbonate (discontinued **)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polyester, TP , Polycyclohexylenedimethylene Terephthalate (PCT)

Material Notes:

ISO data as provided by the manufacturer, Eastman Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Eastalloy-DA003-PCPCTG-CopolyesterPolycarbonate-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 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	5.5 %	5.5 %	
Tensile Modulus	1.97 GPa	286 ksi	1mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.24 ft-lb/in ²	
	0.770 J/cm ²	3.66 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.0 µm/m-°C	37.8 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	50.0 µm/m-°C	27.8 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.38 J/g-°C	0.330 BTU/lb-°F	
Melting Point	249 °C	480 °F	
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	92.0 °C	198 °F	
Vicat Softening Point	110 °C	230 °F	
Glass Transition Temp, Tg	113 °C	235 °F	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Dielectric Strength	17.3 kV/mm	439 kV/in	
Dissipation Factor	0.0080	0.0080	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

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

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