

Cyclics CBT® 200 Thermoplastic Resin

Category : Polymer , Thermoplastic , Polyester , TP , Polybutylene Terephthalate (PBT)

Material Notes:

CBT® 200 resin melts to a water-like viscosity when heated, then polymerizes into the engineering thermoplastic resin polybutylene terephthalate (PBT). CBT 200 resin has a processing range between 170-240°C and is available in both one and two-part systems. CBT 200 resin is formulated for various casting, low pressure molding, coating, and composite applications where the lower melt temperature allows for longer working time than CBT 100 resin before polymerizing into PBT. Information provided by Cyclics Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cyclics-CBT-200-Thermoplastic-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Density	1.14 g/cc	0.0412 lb/in ³	Liquid (Unpolymerized resin)
Viscosity	11 cP	11 cP	Melt (Unpolymerized resin); Cone and plate 10 1/s shear rate
	@Temperature 220 °C	@Temperature 428 °F	
	13 cP	13 cP	
	@Temperature 210 °C	@Temperature 410 °F	
	17 cP	17 cP	
	@Temperature 200 °C	@Temperature 392 °F	Melt (Unpolymerized resin); Cone and plate 10 1/s shear rate
	22 cP	22 cP	Melt (Unpolymerized resin); Cone and plate 10 1/s shear rate
	@Temperature 190 °C	@Temperature 374 °F	
	28 cP	28 cP	Melt (Unpolymerized resin); Cone and plate 10 1/s shear rate
	@Temperature 180 °C	@Temperature 356 °F	
	37 cP	37 cP	Melt (Unpolymerized resin); Cone and plate 10 1/s shear rate
	@Temperature 170 °C	@Temperature 338 °F	
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	ASTM D955
	@Thickness 4.00 mm	@Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	54.0 MPa	7830 psi	ISO 527
Elongation at Break	>= 50 %	>= 50 %	5 mm/min; ISO 527
Elongation at Yield	3.2 %	3.2 %	ISO 527
Tensile Modulus	2.70 GPa	392 ksi	ISO 527

Mechanical Properties	Metric	English	Comments
Flexural Strength	74.0 MPa	10700 psi	ISO 178
Flexural Modulus	2.38 GPa	345 ksi	ISO 178
Izod Impact, Notched (ISO)	6.70 kJ/m ²	3.19 ft-lb/in ²	ISO 180/A
Izod Impact, Unnotched (ISO)	NB	NB	ISO 180/U

Thermal Properties	Metric	English	Comments
Heat of Fusion	64.0 J/g	27.5 BTU/lb	Unpolymerized resin; ASTM E793
Specific Heat Capacity	1.25 J/g-°C	0.299 BTU/lb-°F	Solid (Unpolymerized resin); ASTM E1269
	1.96 J/g-°C @Temperature 180 °C	0.468 BTU/lb-°F @Temperature 356 °F	Liquid (Unpolymerized resin); ASTM E1269
Melting Point	165 °C	329 °F	Unpolymerized resin
	225 °C	437 °F	ASTM D3418
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Processing Temperature	170 - 240 °C	338 - 464 °F	

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