

Cyclics® C11

Polybutylene Terephthalate

Cyclics Corporation

Message:

Cyclics offers a new line of engineered thermoplastic tooling products made from our flagship product, CBT ® resin. Cyclics carries a range of cast products to meet your needs, and we can customize our polymeric material to cover numerous applications and highlight advantages such as high service temperature, abrasion resistance, machinability, surface quality, and low coefficient of thermal expansion (CTE).

- Features:
- High Service Temperature
 - Excellent Machinability
 - No Dust Formation or Odor
 - Little or No Residual Stress
 - High-Grade Surface
 - Chemical Resistance
 - Recyclable

- Applications:
- Match Plates
 - Foundry Patterns
 - Modeling
 - Mold manufacturing
 - Prototyping
 - Vacuum Forming
 - Test Milling
 - Core Boxes

General Information			
Features	Low Residuals		
	Recyclable materials		
	Machinable		
	Good chemical resistance		
	The smell is low to none		
	Excellent appearance		
Uses	Mold Making		
	Forming		
	Forming material		
	Template		
Appearance	brownish yellow		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm³	ASTM C128
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	810	MPa	ASTM D638
Compressive Strength	46.0	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	114	°C	ASTM D648
CLTE - Flow (23 to 80°C)	1.5E-4	cm/cm/°C	ASTM E831
Injection instructions			

Cutter: High speed steel, tungsten carbide, ceramic, or polycrystalline diamondSpeed: 150-300 m/minCut Depth: .8mmFeed: <.05 mm/toothCut Direction: Conventional/climbing

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Recommended distributors for this material

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