

Cyclics® C27

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 | Silver | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 2.01 | g/cm ³ | ASTM C128 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 920 | MPa | ASTM D638 |
| Compressive Strength | 110 | MPa | ASTM D695 |
| Thermal | Nominal Value | Unit | Test Method |

| | | | |
|---|--------|----------|-----------|
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 214 | °C | ASTM D648 |
| CLTE - Flow (23 to 80°C) | 6.7E-5 | 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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