ColorFast® PC200
Polycarbonate
LTL Color Compounders, Inc.

Technical Data

Product Description
20 melt superior processing, fast cycling

General
Material Status
• Commercial: Active

Literature
• Processing (English)
• Technical Datasheet (English)

Search for UL Yellow Card
• LTL Color Compounders, Inc.

Availability
• Africa & Middle East
• Asia Pacific
• Europe
• Latin America
• North America

Features
• Fast Molding Cycle
• Good Processability

Forms
• Pellets

Processing Method
• Injection Molding

Physical
Nominal Value (English) Nominal Value (SI) Test Method
Specific Gravity 1.20 1.20 g/cm³ ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg) 20 g/10 min 20 g/10 min ASTM D1238
Molding Shrinkage - Flow (0.125 in (3.18 mm)) 5.0E-3 to 7.0E-3 in/in 0.50 to 0.70 % ASTM D955

Mechanical
Nominal Value (English) Nominal Value (SI) Test Method
Tensile Strength 3 Yield 9000 psi 62.1 MPa ASTM D638
Break 9500 psi 65.5 MPa

Tensile Elongation 3 Yield 6.0 % 6.0 % ASTM D638
Break 120 % 120 %

Flexural Modulus 3 335000 psi 2310 MPa ASTM D790
Flexural Strength 3 13500 psi 93.1 MPa ASTM D790

Impact
Nominal Value (English) Nominal Value (SI) Test Method
Notched Izod Impact (73°F (23°C)) 12 ft·lb/in 640 J/m ASTM D256

Hardness
Nominal Value (English) Nominal Value (SI) Test Method
Rockwell Hardness (M-Scale) 70 70 ASTM D785

Thermal
Nominal Value (English) Nominal Value (SI) Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm) 260 °F 127 °C ASTM D648

Injection
Nominal Value (English) Nominal Value (SI)
Drying Temperature 250 °F 121 °C
Drying Time 3.0 to 4.0 hr 3.0 to 4.0 hr
Drying Time, Maximum 48 hr 48 hr
Suggested Shot Size 40 to 60 % 40 to 60 %
Rear Temperature 480 to 520 °F 249 to 271 °C
Middle Temperature 500 to 540 °F 260 to 282 °C
Front Temperature 520 to 560 °F 271 to 293 °C
Nozzle Temperature 510 to 550 °F 266 to 288 °C
Processing (Melt) Temp 520 to 560 °F 271 to 293 °C
Mold Temperature 160 to 200 °F 71.1 to 93.3 °C
Back Pressure 50.0 to 100 psi 0.345 to 0.689 MPa
Screw Speed 40 to 70 rpm 40 to 70 rpm
Vent Depth 1.0E-3 to 3.0E-3 in 0.025 to 0.076 mm
Notes

1. These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

2. Typical properties: these are not to be construed as specifications.

3. 2.0 in/min (51 mm/min)
Where to Buy

Supplier
LTL Color Compounders, Inc.
Morrisville, PA USA
Telephone: 800-863-4260
Web: http://www.ltlcolor.com/

Distributor
PolySource
Telephone: 866-558-5300
Web: http://www.polysource.net/
Availability: North America