

LTL Color Compounds ColorFast® PC100 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

10 melt standard injection molding grade All information provided by LTL Color Compounders, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-PC100-Polycarbonate.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|------------------|
| Specific Gravity | 1.20 g/cc | 1.20 g/cc | ASTM D792 |
| Linear Mold Shrinkage | 0.0050 - 0.0070 cm/cm | 0.0050 - 0.0070 in/in | 0.125; ASTM D955 |
| Melt Flow | 10 g/10 min @Load 1.20 kg, Temperature 300 Â°C | 10 g/10 min @Load 2.65 lb, Temperature 572 Â°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---------------------------------------|--|-----------------------|
| Hardness, Rockwell M | 70 | 70 | ASTM D785 |
| Tensile Strength at Break | 68.9 MPa | 10000 psi | 2.0 in/min; ASTM D638 |
| Tensile Strength, Yield | 62.1 MPa | 9000 psi | 2.0 in/min; ASTM D638 |
| Elongation at Break | 130 % | 130 % | 2.0 in/min; ASTM D638 |
| Elongation at Yield | 7.0 % | 7.0 % | 2.0 in/min; ASTM D638 |
| Flexural Strength | 96.5 MPa | 14000 psi | 2.0 in/min; ASTM D790 |
| Flexural Modulus | 2.34 GPa | 340 ksi | 2.0 in/min; ASTM D790 |
| Izod Impact, Notched | 8.01 J/cm @Temperature 22.8 Â°C | 15.0 ft-lb/in @Temperature 73.0 Â°F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|--------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 132 Â°C | 270 Â°F | Unannealed (0.250"); ASTM D648 |

| Processing Properties | Metric | English | Comments |
|---------------------------|---------------|---------------|----------|
| Rear Barrel Temperature | 271 - 293 Â°C | 520 - 560 Â°F | |
| Middle Barrel Temperature | 282 - 304 Â°C | 540 - 580 Â°F | |
| Front Barrel Temperature | 293 - 316 Â°C | 560 - 600 Â°F | |

| Processing Properties | Metric 10°C | English 10°F | Comments |
|-----------------------|--------------------------------|------------------------------|--|
| Melt Temperature | 293 - 316 $^{\circ}\text{C}$ | 560 - 600 $^{\circ}\text{F}$ | |
| Mold Temperature | 71.1 - 93.3 $^{\circ}\text{C}$ | 160 - 200 $^{\circ}\text{F}$ | |
| Drying Temperature | 121 $^{\circ}\text{C}$ | 250 $^{\circ}\text{F}$ | |
| Dry Time | 3 - 4 hour | 3 - 4 hour | nominal; maximum drying time of 48 hours |
| Back Pressure | 0.345 - 0.689 MPa | 50.0 - 100 psi | |
| Shot Size | 40 - 60 % | 40 - 60 % | |
| Vent Depth | 0.00254 - 0.00762 cm | 0.00100 - 0.00300 in | |
| Screw Speed | 40 - 70 rpm | 40 - 70 rpm | |

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