

PRL PC-FD1

PC

Polymer Resources, Ltd.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|-------------------|-------------------|----------------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 7.5 | g/10min | ASTM D 1238 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| Mold Shrinkage, MD | 0.006 | mm/mm | ASTM D 955 |
| Mold Shrinkage, TD | 0.006 | mm/mm | ASTM D 955 |
| Mechanical properties | | | |
| ASTM Data | | | |
| Tensile Strength at Yield | 62.1 | MPa | ASTM D 638 |
| Tensile Strength at Break | 72.4 | MPa | ASTM D 638 |
| Elongation at Yield | 7 | % | ASTM D 638 |
| Elongation at Break | 130 | % | ASTM D 638 |
| Flexural Modulus | 2310 | MPa | ASTM D 790 |
| Rockwell Hardness | M70 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 907 | J/m | ASTM D 256 |
| Thermal properties | | | |
| ASTM Data | | | |
| DTUL @ 66 psi | 138 | °C | ASTM D 648 |
| DTUL @ 264 psi | 132 | °C | ASTM D 648 |
| Vicat Temperature | 154 | °C | ASTM D 1525 |
| Optical properties | | | |
| ASTM Data | | | |
| Haze | 1 | % | ASTM D 1003 |
| Light Transmittance | 88 | % | ASTM D 1003 |
| Other properties | | | |
| Density | 1200 | kg/m ³ | ASTM D 792 |
| Processing Recommendation Injection Molding | | | |
| Pre-drying - Temperature | 118 - 124 | °C | - |
| Pre-drying - Time | 3 - 4 | h | - |
| Melt temperature | 316 - 343 | °C | - |
| Mold temperature | 82.2 - 116 | °C | - |
| Zone 1 | 288 - 310 | °C | - |
| Zone 2 | 299 - 321 | °C | - |
| Zone 3 | 310 - 332 | °C | - |

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Special Characteristics

High impact or impact modified

Certifications

Food contact

Applications

General Purpose

Regional Availability

North America