

PRL PC-HM-FR1-(color)-1

PC-GF10

Polymer Resources, Ltd.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|---------------|-------------|----------------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 8.5 | g/10min | ASTM D 1238 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| Mold Shrinkage, MD | 0.0035 | mm/mm | ASTM D 955 |
| Mold Shrinkage, TD | 0.0035 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|------------------------------|--------------|-------------|----------------------|
| ASTM Data | | | |
| Tensile Strength at Yield | 65.5 | MPa | ASTM D 638 |
| Tensile Strength at Break | 55.8 | MPa | ASTM D 638 |
| Elongation at Yield | 6 | % | ASTM D 638 |
| Elongation at Break | 15 | % | ASTM D 638 |
| Flexural Modulus | 3378 | MPa | ASTM D 790 |
| Flexural Strength | 103 | MPa | ASTM D 790 |
| Rockwell Hardness | M85 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 107 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|---------------------------|--------------|-------------|----------------------|
| ASTM Data | | | |
| UL 94 Flame rating | V-0 | - | UL 94 |
| Thickness tested | 1.5 | mm | - |
| DTUL @ 66 psi | 143 | °C | ASTM D 648 |
| DTUL @ 264 psi | 138 | °C | ASTM D 648 |
| Vicat Temperature | 152 | °C | ASTM D 1525 |

| Electrical properties | Value | Unit | Test Standard |
|------------------------------|--------------|-------------|----------------------|
| ISO Data | | | |
| Comparative tracking index | 212 | - | IEC 60112 |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Density | 1260 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|-------------------|-------------|----------------------|
| Pre-drying - Temperature | 118 - 124 | °C | - |
| Pre-drying - Time | 3 - 4 | h | - |
| Melt temperature | 302 - 329 | °C | - |
| Mold temperature | 82.2 - 116 | °C | - |
| Zone 1 | 293 - 316 | °C | - |
| Zone 2 | 304 - 327 | °C | - |
| Zone 3 | 316 - 338 | °C | - |

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Additives

Release agent

Special Characteristics

Flame retardant

Regional Availability

North America