

PRL PPX-FR3

(PPE+PS)

Polymer Resources, Ltd.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|--------------------|-------------------|----------------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 6.5 | g/10min | ASTM D 1238 |
| Temperature | 250 | °C | - |
| Load | 11.6 | kg | - |
| Mold Shrinkage, MD | 0.006 | mm/mm | ASTM D 955 |
| Mold Shrinkage, TD | 0.006 | mm/mm | ASTM D 955 |
| Mechanical properties | | | |
| ISO Data | | | |
| Charpy notched impact strength, +23°C | 14.7 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, +23°C | 14.7 | kJ/m ² | ISO 180/1A |
| ASTM Data | | | |
| Tensile Strength at Yield | 64.1 | MPa | ASTM D 638 |
| Tensile Strength at Break | 62.1 | MPa | ASTM D 638 |
| Elongation at Yield | 5 | % | ASTM D 638 |
| Elongation at Break | 25 | % | ASTM D 638 |
| Flexural Modulus | 2413 | MPa | ASTM D 790 |
| Flexural Strength | 89.6 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 214 | J/m | ASTM D 256 |
| Izod Impact notched, Low-Temperature | 107 | J/m | ASTM D 256 |
| Temperature | -30 | °C | - |
| Thermal properties | | | |
| ASTM Data | | | |
| UL 94 Flame rating | V-1 | - | UL 94 |
| Thickness tested | 1.5 | mm | - |
| DTUL @ 66 psi | 129 | °C | ASTM D 648 |
| DTUL @ 264 psi | 121 | °C | ASTM D 648 |
| Vicat Temperature | 135 | °C | ASTM D 1525 |
| Electrical properties | | | |
| ISO Data | | | |
| Comparative tracking index | 325 | - | IEC 60112 |
| ASTM Data | | | |
| Dielectric Strength, Short Time | 24 | kV/mm | ASTM D 149 |
| Volume Resistivity | >1E15 | Ohm*cm | ASTM D 257 |
| Other properties | | | |
| Density | 1060 | kg/m ³ | ASTM D 792 |
| Processing Recommendation Injection Molding | | | |
| Pre-drying - Temperature | 104 - 110 | °C | - |
| Pre-drying - Time | 3 - 4 | h | - |
| Melt temperature | 288 - 316 | °C | - |
| Mold temperature | 71.1 - 98.9 | °C | - |
| Zone 1 | 249 - 299 | °C | - |
| Zone 2 | 260 - 304 | °C | - |
| Zone 3 | 271 - 310 | °C | - |

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant

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Delivery form

Pellets

Regional Availability

North America

Additives

Flame retarding agent