

PRL PPX-FR4

(PPE+PS)

Polymer Resources, Ltd.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|-------|---------------|
| ASTM Data | | | |
| Mold Shrinkage, MD | 0.006 | mm/mm | ASTM D 955 |
| Mold Shrinkage, TD | 0.006 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|--------------------------------------|-------|------|---------------|
| ASTM Data | | | |
| Tensile Strength at Yield | 48.3 | MPa | ASTM D 638 |
| Tensile Strength at Break | 46.9 | MPa | ASTM D 638 |
| Elongation at Yield | 6 | % | ASTM D 638 |
| Elongation at Break | 20 | % | ASTM D 638 |
| Flexural Modulus | 2206 | MPa | ASTM D 790 |
| Flexural Strength | 72.4 | MPa | ASTM D 790 |
| Rockwell Hardness | R117 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 267 | J/m | ASTM D 256 |
| Izod Impact notched, Low-Temperature | 80.1 | J/m | ASTM D 256 |
| Temperature | -30 | °C | - |

| Thermal properties | Value | Unit | Test Standard |
|--------------------|-------|------|---------------|
| ASTM Data | | | |
| DTUL @ 66 psi | 85 | °C | ASTM D 648 |
| DTUL @ 264 psi | 76.7 | °C | ASTM D 648 |

| Electrical properties | Value | Unit | Test Standard |
|-----------------------|-------|--------|---------------|
| ASTM Data | | | |
| Volume Resistivity | >1E15 | Ohm*cm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1100 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-------------|------|---------------|
| Pre-drying - Temperature | 76.7 - 82.2 | °C | - |
| Pre-drying - Time | 3 - 4 | h | - |
| Melt temperature | 246 - 274 | °C | - |
| Mold temperature | 65.6 - 82.2 | °C | - |
| Zone 1 | 216 - 266 | °C | - |
| Zone 2 | 227 - 271 | °C | - |
| Zone 3 | 238 - 277 | °C | - |

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Additives

Flame retarding agent

Special Characteristics

Flame retardant

Regional Availability

North America