

PRL ABS-GP1-(color)-EP

ABS

Polymer Resources, Ltd.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|--------------------|-------------------|----------------------|
| ASTM Data | | | |
| Mold Shrinkage, MD | 0.006 | mm/mm | ASTM D 955 |
| Mechanical properties | | | |
| ISO Data | | | |
| Charpy notched impact strength, +23°C | 18.9 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, +23°C | 16.4 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength | 7.36 | kJ/m ² | ISO 180/1A |
| Temperature | -30 | °C | - |
| ASTM Data | | | |
| Tensile Modulus | 2620 | MPa | ASTM D 638 |
| Tensile Strength at Yield | 48.3 | MPa | ASTM D 638 |
| Tensile Strength at Break | 41.4 | MPa | ASTM D 638 |
| Elongation at Yield | 2 | % | ASTM D 638 |
| Elongation at Break | 30 | % | ASTM D 638 |
| Flexural Modulus | 2413 | MPa | ASTM D 790 |
| Flexural Strength | 64.1 | MPa | ASTM D 790 |
| Rockwell Hardness | R110 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 214 | J/m | ASTM D 256 |
| Izod Impact notched, Low-Temperature | 53.4 | J/m | ASTM D 256 |
| Temperature | -40 | °C | - |
| Thermal properties | | | |
| ASTM Data | | | |
| UL 94 Flame rating | HB | - | UL 94 |
| Thickness tested | 1.5 | mm | - |
| DTUL @ 66 psi | 87.8 | °C | ASTM D 648 |
| DTUL @ 264 psi | 82.2 | °C | ASTM D 648 |
| Vicat Temperature | 98.9 | °C | ASTM D 1525 |
| Electrical properties | | | |
| ASTM Data | | | |
| Volume Resistivity | >1E15 | Ohm*cm | ASTM D 257 |
| Other properties | | | |
| Density | 1050 | kg/m ³ | ASTM D 792 |
| Processing Recommendation Injection Molding | | | |
| Pre-drying - Temperature | 82.2 - 93.3 | °C | - |
| Pre-drying - Time | 3 - 4 | h | - |
| Melt temperature | 218 - 260 | °C | - |
| Mold temperature | 48.9 - 71.1 | °C | - |
| Zone 1 | 188 - 210 | °C | - |
| Zone 2 | 204 - 227 | °C | - |
| Zone 3 | 216 - 238 | °C | - |

Characteristics**Processing**

Injection Molding

Applications

General Purpose

Delivery form

Pellets

Regional Availability

North America

Special Characteristics

Platable