

Technical Datasheet of Polycarbonate PC1100U

Description

Medium viscosity
 UV-stability, Mold release


Applications


Outdoor and light exposed extrusion & injection product

| Typical Properties | Test Method | Typical value | Unit |
|--|-------------|---------------|---------------------|
| Physical | | | |
| Melt Flow Index, 300°C, 1.2kg | ASTM D1238 | 10 | g/10min |
| Specific Gravity | ASTM D792 | 1.20 | |
| Mold Shrinkage | ASTM D955 | 0.5~0.7 | % |
| Mechanical | | | |
| Tensile Strength, yield, 50mm/min | ASTM D638 | 630 | kgf/cm ² |
| Tensile Elongation, break, 50mm/min | ASTM D638 | >100 | % |
| Flexural Strength, yield, 10mm/min | ASTM D790 | 920 | kgf/cm ² |
| Flexural Modulus, 10mm/min | ASTM D790 | 24,000 | kgf/cm ² |
| IZOD Impact Strength, notched, 23 °C, 1/8" | ASTM D256 | 80 | kg-cm/cm |
| | ASTM D256 | - | kg-cm/cm |
| Thermal | | | |
| Heat Distortion Temp. 4.6kgf/cm ² | ASTM D648 | 143 | °C |
| | ASTM D648 | 132 | °C |
| Vicat Softening Temp. Rate B/50 | ASTM D1525 | 150 | °C |
| Optical | | | |
| Light Transmittance | ASTM D1003 | 89 | % |
| Haze | ASTM D1003 | < 0.8 | % |
| Refractive Index | ASTM D542 | 1.585 | |



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