

Grade: PC7602 (F1)

Molding Grade PC FR w/ UV and Release, All Colors

**Typical Material Properties**

|  |  |  |  |
| --- | --- | --- | --- |
| **Physical** | **Nominal Values** | **ASTM Test** | |
| Specific Gravity | 1.20 | D792 |  |
| Melt Flow (300°C/1.2kg) | 20.0 g/10 min | D1238 |
|  |  |  |  |
| **Mechanical** |  |  |  |
| Tensile Modulus | 345,000 psi | D638 |  |
| Tensile Strength @ Yield | 8,500 psi | D638 |
| Flexural Modulus | 345,000 psi | D790 |
| Flexural Strength @ Yield | 13,000 psi | D790 |
|  |  |  |  |
| **Impact** |  |  |  |
| Notched Izod Impact (73 °F, 0.125 in) | 14.0 ft-lb/in | D256 |  |
|  |  |  |  |
| **Thermal** |  |  |  |
| DTUL @ 264 psi-unannealed (0.125 in) | 260 °F | D648 |  |
|  |  |  |  |
| **Mold Shrinkage** |  |  |  |
| Linear Flow | .005 - .007 in/in | D955 |  |
|  |  |  |  |
| **UL Rating** |  |  |  |
| Flammability | V-2 @ 0.75mm, v-2 @ 1.5mm, V-2 @ 3.0 mm, V-2 @ 3.5mm | UL 94 |  |
| RTI | 125°C, 115°C, 125°C | UL746B |

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**Recommended Processing Guidelines**

|  |  |  |
| --- | --- | --- |
| **Nominal Values** | | |
| Drying Time and Temperature | 4.0 hrs, 250°F |  |
| Suggested Max Moisture | 0.020% |  |
| Rear Temperature | 520°F – 550 °F |  |
| Middle Temperature | 530°F – 570 °F |  |
| Front Temperature | 550°F – 600 °F |  |
| Nozzle Temperature | 550°F – 600 °F |  |
| Processing (Melt) Temperature | 550°F – 600 °F |  |
| Mold Temperature | 170°F – 220 °F |  |
| Back Pressure | 50 – 100 psi |  |
| Screw Speed | 40 – 75 RPM |  |

The conditions listed above are only guidelines. You may want to adjust conditions to meet your requirements.

Technical Data Sheet Access: 11/7/23