

Grade: Orion™ PCQP7056R

Molding Grade PCFR w/ Flammability Rating and Elevated RTI’s

**Typical Material Properties**

|  |  |  |
| --- | --- | --- |
| **Physical** | **Nominal Values** | **ASTM Test** |
| Specific Gravity | 1.27 | D792 |
| Melt Flow (300°C/1.2 kg) | 15.0 g/10 min | D1238 |
|  |  |  |
| **Mechanical** |  |  |
| Tensile Modulus | 500,000 psi | D638 |
| Tensile Strength @ Yield | 10,000 psi | D638 |
| Flexural Modulus | 500,000 psi | D790 |
| Flexural Strength @ Yield | 15,000 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) | 275 °F | D648 |
|  |  |  |
| **Mold Shrinkage** |  |  |
| Linear Flow | .003 - .005 in/in | D955 |
| **UL Rating** |  |  |
|  | V-0 (.620”) ; 5VA (0.125”) | UL 94 |

The information provided above is based upon typical values, and is intended only as a guide. Star Plastics, LLC assumes no obligation or liability for any advice furnished or for any results obtained with respect to this information. *No guarantees or warranties are expressed or implied.*

Orion™ is a registered trademark of Star Plastics, LLC, its subsidiaries or affiliates.

**Recommended Processing Guidelines**

|  |  |
| --- | --- |
| **Nominal Values** | |
| Drying Time and Temperature | 4.0 hrs at 250°F |
| Suggested Max Moisture | 0.020% |
| Rear Temperature | 550 – 600°F |
| Middle Temperature | 575 – 625°F |
| Front Temperature | 600 – 650°F |
| Nozzle Temperature | 600 – 650°F |
| Processing (Melt) Temperature | 600 – 650°F |
| Mold Temperature | 50 – 200°F |
| Back Pressure | 40 – 100 psi |
| Screw Speed | 25 – 75 RPM |

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

Rev0 Technical Data Sheet Access: 6/5/23