

## GRADE: PC701, PC701R

Molding Grade PC, w/ Release

### Typical Material Properties

Physical	Nominal Values	ASTM Test
Specific Gravity	1.20	D792
Melt Flow (300°C/1.2kg)	9.0 g/10 min	D1238
<b>Mechanical</b>		
Tensile Modulus	350,000 psi	D638
Tensile Strength @ Yield	8,700 psi	D638
Flexural Modulus	345,000 psi	D790
Flexural Strength @ Yield	13,000 psi	D790
<b>Impact</b>		
Notched Izod Impact (73°F, 0.125 in)	14.0 ft-lb/in	D256
<b>Thermal</b>		
DTUL @ 264 psi-unannealed (0.125 in)	265 °F	D648
<b>Mold Shrinkage</b>		
Linear Flow	.005 - .007 in/in	D955
<b>UL Rating</b>	V2 (3.0 mm); V2(1.5 mm)	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	520°F – 560°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 – 210°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.