

## Grade: Orion™ PC/ABSQX7005

Molding Grade PC/ABS

### Typical Material Properties

Physical	Nominal Values	ASTM Test
Specific Gravity	1.10	D792
Melt Flow (260°C/5.0 kg)	15.0 g/10 min	D1238
<b>Mechanical</b>		
Tensile Modulus	310,000 psi	D638
Tensile Strength @ Yield	7,000 psi	D638
Flexural Modulus	310,000 psi	D790
Flexural Strength @ Yield	10,000 psi	D790
<b>Impact</b>		
Notched Izod Impact (73°F, 0.125 in)	10.0 ft-lb/in	D256
<b>Thermal</b>		
DTUL @ 264 psi – Unannealed (0.250 in)	230°F	D648
<b>Mold Shrinkage</b>		
Linear Flow	.004 – .008 in/in	D955

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	3.0 - 4.0 hrs at 190 - 230°F
Suggested Max Moisture	0.020%
Rear Temperature	460 – 525°F
Middle Temperature	500 – 525°F
Front Temperature	500 – 550°F
Nozzle Temperature	500 – 550°F
Processing (Melt) Temperature	500 – 550°F
Mold Temperature	150 – 200°F
Back Pressure	25 – 100 psi
Screw Speed	25 – 75 RPM

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