

ORION™ RESINS

Grade: PC2012R, FRRUV

Molding Grade PCFR, w/ Release, w/ Release and UV

Typical Material Properties

Physical	Nominal Values	ASTM Test
Specific Gravity	1.20	D792
Melt Flow (300°C/1.2 kg)	20 g/10 min	D1238
Mechanical		
Tensile Modulus	340,000 psi	D638
Tensile Strength @ Yield	8,300 psi	D638
Flexural Modulus	340,000 psi	D790
Flexural Strength @ Yield	12,000 psi	D790
Impact		
Notched Izod Impact (73 °F, 0.125 in)	12 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	FRR is V2 (1.5mm)	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.*

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Recommended Processing Guidelines

	Nominal Values
Drying Time and Temperature	4.0 hrs at 250°F
Suggested Max Moisture	0.020%
Rear Temperature	475 – 525 °F
Middle Temperature	500 – 550 °F
Front Temperature	525 – 575 °F
Nozzle Temperature	525 – 575 °F
Processing (Melt) Temperature	525 – 575 °F
Mold Temperature	160 – 210 °F
Back Pressure	50 – 200 psi
Screw Speed	40 – 100 RPM

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