

Orion™ RESINS

Grade: PC5GFMBFR, RUV, UV, R

Molding Grade PCFR w/ 5% Glass, Release, UV, Release & UV



TYPICAL MATERIAL PROPERTIES

Physical	Nominal Values	ASTM Test
Specific Gravity	1.27	D792
Melt Flow (300°C/1.2 kg)	12.0 g/10 min	D1238
Mechanical		
Tensile Modulus	350,000 psi	D638
Tensile Strength @ Yield	7,500 psi	D638
Flexural Modulus	400,000 psi	D790
Flexural Strength @ Yield	13,000 psi	D790
Impact		
Notched Izod Impact (73 °F, 0.125 in)	2.5 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		
	V0 (3.0 mm and 6.0mm)	UL 94

The information provided above is based upon typical values, and are intended only as guides. Star Plastics, Inc/SDR Inc. 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, 250°F
Suggested Max Moisture	0.020%
Rear Temperature	490 – 520 °F
Middle Temperature	510 – 560 °F
Front Temperature	560 – 590 °F
Nozzle Temperature	520 – 590 °F
Processing (Melt) Temperature	500 – 575 °F
Mold Temperature	160 – 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
StarPlastics.com

Access: 6/23/22

Navigating Custom Compounds