

# Orion™ RESINS

Grade: PCQP301000R, UV, RUV

Molding Grade: FR PC with 10% Glass, V0 & 5VA w/ f(1) in Black and Gray



## TYPICAL MATERIAL PROPERTIES

Physical	Nominal Values	ASTM Test
Specific Gravity	1.26	D792
Melt Flow (300°C/1.2 kg)	10.0 g/10 min	D1238
<b>Mechanical</b>		
Tensile Modulus	480,000 psi	D638
Tensile Strength @ Yield	9,600 psi	D638
Flexural Modulus	495,000 psi	D790
Flexural Strength @ Yield	14,750 psi	D790
<b>Impact</b>		
Notched Izod Impact (73°F, 0.125 in)	2.50 ft-lb/in	D256
<b>Thermal</b>		
DTUL @ 264 psi-unannealed (0.125 in)	289 °F	D648
<b>Mold Shrinkage</b>		
Linear Flow	.003 - .005 in/in	D955
<b>UL Rating</b>		
	(f1)	UL746C
Flammability	V-0 @ 1.5mm, 3.0mm 5VA@3.0mm	UL94

The information provided above is based upon typical values, and are intended only as guides. Star Plastics, LLC/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 at 250 °F
Suggested Max Moisture	0.020%
Rear Temperature	520 – 550 °F
Middle Temperature	530 – 570 °F
Front Temperature	550 – 600 °F
Nozzle Temperature	550 – 600 °F
Processing (Melt) Temperature	550 – 610 °F
Mold Temperature	150 – 220 °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.

Rev0

Technical Data Sheet  
StarPlastics.com

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# Navigating Custom Compounds