



## GRADE: ORION® PCHC7550 (F1)

Molding Grade PCFR w/ UV, R, Cold Temp Impact Modified; In Black, Gray & Beige, Non-Chlorinated & Non-Brominated

### Typical Material Properties

Physical	Nominal Values	ASTM Test
Specific Gravity	1.19	D792
Melt Flow (300°C/1.2 kg)	10.0 g/10 min	D1238
<b>Mechanical</b>		
Tensile Modulus	320,000 psi	D638
Tensile Strength @ Yield	8,400 psi	D638
Flexural Modulus	348,000 psi	D790
Flexural Strength @ Yield	9,000 psi	D790
<b>Impact</b>		
Notched Izod Impact (73°F, 0.125 in)	17.0 ft-lb/in	D256
Notched Izod Impact (-40°F, 0.125 in)	14.0 ft-lb/in	D256
<b>Thermal</b>		
DTUL @ 264 psi – Unannealed (0.125 in)	275°F	D648
<b>Mold Shrinkage</b>		
Linear Flow	.004 – .008 in/in	D955
<b>UL Rating</b>		
	(f1)	<b>UL746C</b>
Flammability	V-0 @ 1.5mm, 5VA @ 2.5mm	UL 94
RTI	125°C, 115°C, 125°C	UL746B
Non-Chlorinated & Non-Brominated		UL746H
<b>Electrical</b>		
Dielectric Constant 60Hz	2.95	ASTM D150
Dielectric Constant 1MHz	2.90	ASTM D150

### 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 – 600°F
Mold Temperature	170 – 220°F
Back Pressure	50 – 100 psi
Screw Speed	40 – 75 RPM