



GRADE: ORION® PCHC7301 (F1)

Molding Grade PCFR w/ UV and Release, All Colors but Clear
NCNB (Non-Chlorinated & Non-Brominated)

Typical Material Properties

Physical	Nominal Values	ASTM Test
Specific Gravity	1.20	D792
Melt Flow (300°C/1.2 kg)	16.0 g/10 min	D1238
Mechanical		
Tensile Modulus	350,000 psi	D638
Tensile Strength @ Yield	8,800 psi	D638
Flexural Modulus	350,000 psi	D790
Flexural Strength @ Yield	13,000 psi	D790
Impact		
Notched Izod Impact (73°F, 0.125 in)	14.0 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		
Flammability	(f1)	UL746C
RTI	V-0 @ 1.5mm	UL 94
Non-Chlorinated & Non-Brominated	125°C, 115°C, 125°C	UL746B UL746H

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