



Grade: re-PCR-FR4301(f2)

Molding Grade PCFR, 10% GF with Elevated RTI's and (f2), All colors Including 50% Pre-consumer Validated Recycled Content Materials

Typical Material Properties

Physical	Nominal Values	ASTM Test
Specific Gravity	1.20	D792
Melt Flow (300°C/1.2 kg)	12.0 g/10 min	D1238
Mechanical		
Tensile Modulus	480,000 psi	D638
Tensile Strength @ Yield	9,400 psi	D638
Flexural Modulus	490,000 psi	D790
Flexural Strength @ Yield	14,500 psi	D790
Impact		
Notched Izod Impact (73°F, 0.125 in)	2.50 ft-lb/in	D256
Thermal		
DTUL @ 264 psi – Unannealed (0.125 in)	288 °F	D648
Mold Shrinkage		
Linear Flow	.003 - .005 in/in	D955
UL Rating		
Flammability	(f2)	UL746C
RTI	V-0 @ 1.5mm, 5VA@2.4mm 125°C, 115°C, 125°C	UL 94 UL 746B

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	150 – 220 °F
Back Pressure	50 – 100 psi
Screw Speed	40 – 75 RPM