

Grade: reNova® re-PC10R-FR3600

PFAS Free, Halogen Compliant* Molding Grade PCFR w/UV & Release, All Colors Including 25-50% Post-Industrial Recycled Content Materials

Typical Material Properties

Physical	Nominal Values	ASTM Test
Specific Gravity	1.20 g/cm ³	D792
Melt Flow (300°C/1.2 kg)	9.0 g/10 min	D1238
Mechanical		
Tensile Modulus	350,000 psi	D638
Tensile Strength @ Yield	8,700 psi	D638
Flexural Modulus	335,000 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	265 °F	D648
Mold Shrinkage		
Linear Flow	.005 - .007 in/in	D955
UL Rating		
Flammability	V-0 @ 1.5mm, V-0 @ 3.0mm	UL 94
RTI	80°C, 80C, 80°C	UL746B

Recommended Processing Guidelines

	Nominal Values
Drying Time and Temperature	4.0 hrs. at 250°C
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	70 – 105 °F
Back Pressure	50-100 psi
Screw Speed	40 – 75 RPM