

Radici Renycle[®] Renycle S GF2501 HFO

Partially recycled PA6 flame retardant injection molding grade, halogen and red phosphorus free. 25% glass fiber reinforced. Laser mark able. Black color. This material has been developed to reduce its environmental impact compared to first choice grades, through the recovery of post consumer components previously classified as waste.

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	DAM; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	5mm / min. DAM.; ISO 527-2/1A
Elongation at Break	2.9 %	2.9 %	5mm / min. DAM.; ISO 527-2/1A
Tensile Modulus	9.40 GPa	1360 ksi	1mm / min. DAM; ISO 527-2/1A
Flexural Strength	190 MPa	27600 psi	2mm / min. DAM; ISO 178
Flexural Modulus	9.10 GPa	1320 ksi	2mm / min. DAM; ISO 178
Charpy Impact Unnotched	0.700 J/cm ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	5.00 J/cm ² @Temperature -30.0 °C	23.8 ft-lb/in ² @Temperature -22.0 °F	DAM; ISO 179/1eU

Thermal Properties	Metric	English	Comments
Melting Point	217 °C	423 °F	10°C/min.; ISO 11357-1/-3
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 280 °C	464 - 536 °F	Injection Molding
Mold Temperature	80.0 - 90.0 °C	176 - 194 °F	

Descriptive Properties	
Injection Molding Injection Speed	Medium - high