

Radici Renycle[®] Renycle S GF3001K

Partially recycled PA6 30% glass fiber reinforced injection molding grade. Heat stabilized. 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	1.36 g/cc	0.0491 lb/in ³	DAM; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	5mm / min. DAM.; ISO 527-2/1A

Elongation at Break	3.5 %	3.5 %	5mm / min. DAM.; ISO 527-2/1A
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Tensile Modulus	9.35 GPa	1360 ksi	1mm / min. DAM; ISO 527-2/1A
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Flexural Strength	230 MPa	33400 psi	2mm / min. DAM; ISO 178
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Flexural Modulus	7.95 GPa	1150 ksi	2mm / min. DAM; ISO 178
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Charpy Impact Unnotched	6.20 J/cm ² @Temperature -30.0 °C	29.5 ft-lb/in ² @Temperature -22.0 °F	DAM; ISO 179/1eU
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Charpy Impact, Notched	0.850 J/cm ² @Temperature -30.0 °C	4.04 ft-lb/in ² @Temperature -22.0 °F	DAM; ISO 179/1eU
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Thermal Properties	Metric	English	Comments
Melting Point	217 °C	423 °F	10°C/min.; ISO 11357-1/-3

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		