

# Radici Renycle<sup>®</sup> Renycle S N101

Partially recycled PA6 injection molding grade. 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	1.13 g/cc	0.0408 lb/in <sup>3</sup>	DAM; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	50mm/min. DAM; ISO 527-2/1A
Elongation at Break	10 %	10 %	5mm / min. DAM. Nominal.; ISO 527-2/1A
Elongation at Yield	4.3 %	4.3 %	ISO 527-2/1A
Tensile Modulus	3.05 GPa	442 ksi	1mm / min. DAM; ISO 527-2/1A
Flexural Strength	105 MPa	15200 psi	2mm / min. DAM; ISO 178
Flexural Modulus	2.50 GPa	363 ksi	2mm / min. DAM; ISO 178
Charpy Impact, Notched	0.450 J/cm <sup>2</sup> @Temperature -30.0 °C	2.14 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	DAM; ISO 179/1e/A

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	70.0 - 80.0 °C	158 - 176 °F	

Descriptive Properties	
Injection Molding Injection Speed	Medium