

Radici Renycle[®] Renycle S T203K

Partially recycled PA6 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 (end of life) components previously classified as waste.

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.014 cm/cm	0.014 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	ISO 294-4
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 250 °C	20 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133
Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	65.0 MPa	9430 psi	50mm/min; ISO 527-2/1A
Elongation at Break	>= 20 %	>= 20 %	50mm / min. DAM; ISO 527-2/1A
Tensile Modulus	2.50 GPa	363 ksi	1mm / min. DAM; ISO 527-2/1A
Flexural Strength	100 MPa	14500 psi	2mm / min. DAM; ISO 178
Flexural Modulus	2.45 GPa	355 ksi	2mm / min. DAM; ISO 178
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	DAM; ISO 179/1eU
Charpy Impact, Notched	1.25 J/cm ² @Temperature -30.0 °C	5.95 ft-lb/in ² @Temperature -22.0 °F	DAM; ISO 179/1e/A
Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ISO 75/2Af
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		