RENYCLE S GF3003 3033 BK

PA6-GF30 RadiciGroup High Performance Polymers

Product Texts

Partially recycled PA6 30% glass-fibre-reinforced injection moulding grade. Black colour.

The recycled material has been developed to reduce its environmental impact in comparison to traditional virgin options. Suitable for parts requiring high stiffness and good mechanical resistance.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**9500 / 6500**	MPa	ISO 527
[C] Stress at break	**150 / 105**	MPa	ISO 527
[C] Strain at break	**3.4 / 6.5**	%	ISO 527
[C] Charpy impact strength, +23°C	**75 / 85**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**11 / 15**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**220 / ***	°C	ISO 11357-1/-3
[C] Burning Behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**0.8 / ***	mm	-

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**7.5 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**2 / ***	%	Sim. to ISO 62
[C] Density	**1360 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Granules, Black

Additives
Release agent

Certifications
Recycled Resin Content

Regional Availability
Europe

Other text information

Injection molding

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.15%. Typical conditions with a desiccant drier: temperature 80 ° C, dew point -20 ° C or below, time 2-4 h or more. Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material. Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

Injection Molding Processing Parameters

Melt Temperature	Mold Temperature	Injection Speed
240 - 280°C	80 - 90°C	medium-high