RENYCLE S W2503 FR2 262 WT

PA6-MF25 RadiciGroup High Performance Polymers

Product Texts

Partially recycled PA6 flame retardant injection moulding grade, 25% mineral filled. Halogen and phosphorus free. White colour.

The recycled material has been developed to reduce its environmental impact in comparison to traditional virgin options. Suitable for complex-shaped parts requiring good dimensional stability and low warpage. Rated UL-94 V2 at 0.8 mm.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**6600 / -**	MPa	ISO 527
[C] Stress at break	**75 / -**	MPa	ISO 527
[C] Strain at break	**3.3 / -**	%	ISO 527
[C] Charpy impact strength, +23°C	**40 / -**	kJ/m²	ISO 179/1eU

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**220 / ***	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**120 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**200 / ***	°C	ISO 75-1/-2
[C] Burning Behav. at thickness h	**V-2 / ***	class	IEC 60695-11-10
Thickness tested	**0.8 / ***	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**1E13 / -**	Ohm*m	IEC 62631-3-1
[C] Electric strength	**425 / -**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**5.7 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**1.6 / ***	%	Sim. to ISO 62
[C] Density	**1420 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Granules, White

Additives
Release agent

Special Characteristics
Flame retardant, Halogen-free, Phosphorus-free, Light stabilized or stable to light, Heat stabilized or stable to heat

Features
Low Warpage

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