RADITER B ERV300TKB 3827 BK

PBT-GF32 RadiciGroup High Performance Polymers

Product Texts

PBT 32% glass fibre reinforced injection moulding grade. Toughened, hydrolysis-stabilized and improved flowability. Black colour.

Suitable for parts requiring high stiffness, good mechanical strength and hydrolysis resistance. Laser markable grade.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.3**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.9**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**9400**	MPa	ISO 527
[C] Stress at break	**125**	MPa	ISO 527
[C] Strain at break	**3.5**	%	ISO 527
[C] Charpy impact strength, +23°C	**80**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**82**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**16**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**13**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**225**	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**204**	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**20**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**150**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**1E13**	Ohm*m	IEC 62631-3-1
[C] Comparative tracking index	**550**	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1480**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Granules, Black

Additives
Release agent

Special Characteristics
Heat stabilized or stable to heat

Features
Laser Markable

Chemical Resistance
Hydrolytically Stable

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

The material is delivered in moisture-proof packaging. It is important to dry the material prior to processing: maximum recommended water content is 0.02%. Typical conditions with a desiccant drier: temperature 120 ° C, dew point -40 ° 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
265 - 285°C	80 - 100°C	medium-high