Injection Speed

medium-high





### PRODUCT INFORMATION

## RADITER B ERV4008TKB 381 BK

#### DESCRIPTION

PBT 30% glass fibre reinforced injection moulding grade. Toughened, hydrolysis-stabilized. Black colour.

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

ISO 1043: PBT-IT GF30

REGIONAL AVAILABILITY: North America, Europe, Asia Pacific, South and Central America, Near East/Africa

#### MATERIAL HANDLING AND PROCESSING

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 265 - 285°C 80 - 100°C

#### PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet ROHS compliant 2011/65/EU and following amendments

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### **TECHNICAL DATA SHEET**

# RADITER B ERV4008TKB 381 BK

PROPERTY		STANDARD	UNIT	VALUE
PHYSICAL PROPERTIES				
Density Melt Flow Rate Moulding shrinkage – Parallel / Normal	275/5 <sup>[1]</sup> 280/80/30 <sup>[2]</sup>	ISO 1183 ISO 1133 ISO 294-4	kg/m³ g/10min %	1500 13 0.6 / 1.3
MECHANICAL PROPERTIES				
Tensile Modulus Stress at Break Strain at Break Flexural Modulus Flexural Strength Charpy Impact Strength Charpy Notched Impact Strength	1mm/min 5mm/min 5mm/min 2mm/min 2mm/min +23°C +23°C	ISO 527-2/1A ISO 527-2/1A ISO 527-2/1A ISO 178 ISO 178 ISO 179/1eU ISO 179/1eA	MPa MPa % MPa MPa kJ/m² kJ/m²	9200 120 3.8 8200 195 80 16
THERMAL PROPERTIES				
Melting Temperature Heat Deflection Temperature Heat Deflection Temperature Vicat Softening Temperature Coeff. of Linear Therm. Expansion Coeff. of Linear Therm. Expansion	10°C/min 1.80 MPa 0.45 MPa 50°C/h 50N parallel, 23°C-55°C normal, 23°C-55°C	ISO 11357-1/-3 ISO 75/2Af ISO 75/2Bf ISO 306 ISO 11359-1/-2 ISO 11359-1/-2	°C °C °C °C E-6/K E-6/K	225 200 215 200 20 150
FLAMMABILITY PROPERTIES				
Flammability Glow Wire Flammability Index Automotive Interior Flammability	1.6mm 2mm 3mm	UL 94 IEC 60695-2-12 ISO 3795	class °C mm/min	HB 700 <30
ELECTRICAL PROPERTIES				
Volume Resistivity Surface Resistivity Comparative Tracking Index	500V 500V Sol.A	IEC 62631-3-1 IEC 62631-3-2 IEC 60112	Ohm*m Ohm V	1E13 1E12 450

<sup>1:</sup> Temperature [°C] / Load [kg] 2: Melt Temperature [°C] / Mold Temperature [°C] / Cavity Pressure [MPa]

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