Product Information

RADITER BN 100 T 2051 BIA

Material code *Colour code*

DESCRIPTION

PBT injection moulding grade. Toughened. White colour.

General purpose grade, suitable for parts requiring good impact resistance.

ISO 1043 : PBT-I

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.

Processing Parameters

Melt Temperature:	Mold Temperature:	Injection Speed:
250 ÷ 290 °C	60 ÷ 80 °C	Medium

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet

RoHS compliant 2002/95/CE and following amendments

Technical data sheet

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PROPERTY		STANDARD	UNIT	VALUE
Physical Properties				
Density		ISO 1183	Kg/m^3	1280
Mechanical Properties				
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	2100
Stress at Yield	50mm/min	ISO 527-2/1A	MPa	45
Yield Strain	50mm/min	ISO 527-2/1A	%	4.4
Nominal Strain at Break	50mm/min	ISO 527-2/1A	%	25
Flexural Modulus	2mm/min	ISO 178	MPa	2050
Flexural Strength	2mm/min	ISO 178	MPa	70
Charpy Notched Impact Strength	+23°C	ISO 179/1 eA	KJ/m^2	10
Thermal Properties				
Melting Temperature	10°C/min	ISO 11357-1-3	°C	225
Heat Deflection Temperature	1.8 MPa	ISO 75/2 A f	°C	60
Vicat Softening Temperature	50°C/h	ISO 306/B50 50N	°C	165
Flammability Properties				
Flammability	0.8mm	UL 94	class	HB
Automotive interior flammability	Burn rate	FMVSS302	mm/min	<10
Electrical Properties				
Volume resistivity	500V	IEC 60093	ohm · m	1 E+13
Surface resistivity	500V	IEC 60093	ohm	1 E+12