

Raditer® B RV300W 3733 BK

 Radici Group High Performance Polymers - *Polybutylene Terephthalate*
General Information
Product Description

PBT 30% glass fiber reinforced injection moulding grade. Black colour.

Suitable for parts requiring high stiffness and good mechanical resistance.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• High Stiffness
Uses	• Automotive Applications
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• GM GMW16733P-PBT-GF30
Appearance	• Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PBT GF30

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F, 0.0787 in)	0.30	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.41E+6	psi	ISO 527-1/1A/1
Tensile Stress (Break)	20300	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.7	%	ISO 527-2/1A/5
Flexural Modulus ²	1.28E+6	psi	ISO 178
Flexural Stress ²	29000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.8	ft·lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	428	°F	ISO 75-2/Bf
Deflection Temperature Under Load (264 psi, Unannealed)	401	°F	ISO 75-2/Af
Vicat Softening Temperature	410	°F	ISO 306/B50
Melting Temperature ³	437	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁴	1.0E+12	ohms	IEC 62631-3-2
Volume Resistivity ⁴	1.0E+13	ohms·cm	IEC 62631-3-1
Comparative Tracking Index (Solution A)	350	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate (0.118 in)	< 2.0	in/min	ISO 3795
Flame Rating (0.031 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer	248	°F
Drying Time - Desiccant Dryer	2.0 to 4.0	hr



Dew Point - Desiccant Dryer	< -40 °F
Suggested Max Moisture	0.020 %
Processing (Melt) Temp	482 to 536 °F
Mold Temperature	176 to 194 °F
Injection Rate	Moderate-Fast

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min

³ 10°C/min

⁴ 500V

