

Radiflam® B RV150 AE 100 NT

Radici Group High Performance Polymers - Polybutylene Terephthalate

General Information

Product Description

PBT flame retardant injection moulding grade. 15% glass fiber reinforced. Natural colour.

Suitable for parts requiring fire retardancy along with improved stiffness. Rated V-0 according to UL-94.

General

Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant • Good Stiffness
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PBT-GF15 FR(17)

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	13	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	943000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	15200	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	%	ISO 527-2/1A/5
Flexural Modulus ²	870000	psi	ISO 178
Flexural Stress ²	23200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.3	ft-lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	24	ft-lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ³	437	°F	ISO 11357-3
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.031 in)	V-0		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

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Injection	Nominal Value	Unit
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