

Radiflam® S RV150 HF 3739 BK

Radici Group High Performance Polymers - Polyamide 6

General Information

Product Description

PA6 flame retardant injection moulding grade, halogen and red phosphorus free. 15% glass fibre reinforced. Deep Black colour

Suitable for parts requiring fire retardancy along with improved stiffness and mechanical resistance. Good electrical insulating properties. Rated V-0 if tested in accordance with UL-94 method.

General

Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Additive	• Flame Retardant
Features	<ul style="list-style-type: none"> • Flame Retardant • Good Stiffness • Halogen Free • Low (to None) Phosphorus Content
Uses	• Automotive Applications
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA6 GF15 FR(40+70)

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	914000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	14500	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.9	%	ISO 527-2/1A/5
Flexural Modulus ²	914000	psi	ISO 178
Flexural Stress ²	21800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	2.9	ft-lb/in ²	
73°F	3.5	ft-lb/in ²	
Charpy Unnotched Impact Strength (73°F)	31	ft-lb/in ²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	3.6	ft-lb/in ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	408	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	354	°F	ISO 75-2/Af
Vicat Softening Temperature	383	°F	ISO 306/B50
Melting Temperature ³	428	°F	ISO 11357-3
CLTE - Flow (73 to 131°F)	1.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F)	1.1E-4	in/in/°F	ISO 11359-2

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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	176	°F
Drying Time - Desiccant Dryer	2.0 to 4.0	hr
Dew Point - Desiccant Dryer	< -4	°F
Suggested Max Moisture	0.10	%
Processing (Melt) Temp	464 to 536	°F
Mold Temperature	140 to 176	°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