

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

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant • Halogen Free • Good Stiffness • Low (to None) Phosphorus Content
Uses	• Automotive Applications
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• GM GMW16801P-PA6-GF15-T1
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
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

