

Radiflam® S RV150 HF 339 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
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA6-GF15 FR(40)

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F, 0.0787 in)	5.8	%	ISO 62
Water Absorption Equilibrium, 73°F, 0.0787 in, 50% RH	1.8	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	928000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	13800	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.4	%	ISO 527-2/1A/5
Flexural Modulus ²	885000	psi	ISO 178
Flexural Stress ²	23200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.3	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
Deflection Temperature Under Load (66 psi, Unannealed)	410	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	356	°F	ISO 75-2/Af
Melting Temperature ³	428	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity (500 V)	1.0E+12	ohms	IEC 62631-3-2
Volume Resistivity (500 V)	1.0E+13	ohms·m	IEC 62631-3-1
Comparative Tracking Index (Solution A)	550	V	IEC 60112

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Flammability	Nominal Value	Unit	Test Method
Burning Rate (0.118 in)	0.0	in/min	ISO 3795
Flame Rating			UL 94
0.031 in		V-0	
0.06 in		V-0	

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	

Notes

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

² 0.079 in/min

³ 10°C/min