

Radiflam® A RV150HHR HF 3739 BK

Radici Group High Performance Polymers - *Polyamide 66*

General Information

Product Description

PA66 flame retardant injection moulding grade, halogen and red phosphorus free. 15% glass fibre reinforced, high heat resistance, Black Colour.

Suitable for parts requiring fire retardancy along with high stiffness and good mechanical resistance, and high heat resistance. Rated V-0 according to UL-94.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Additive	• Flame Retardant		
Features	• Flame Retardant • Halogen Free	• High Heat Resistance • High Stiffness	• 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)	• PA66-T GF15 FR(40)		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.29	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/3.25 kg)	32	--	g/10 min	ISO 1133
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.06E+6	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	16000	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	--	%	ISO 527-2/1A/5
Flexural Modulus ²	943000	--	psi	ISO 178
Flexural Stress ²	24700	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.5	--	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	23	--	ft·lb/in ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	482	--	°F	ISO 75-2/Bf
Deflection Temperature Under Load (264 psi, Unannealed)	419	--	°F	ISO 75-2/Af
Melting Temperature ³	500	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity (500 V)	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
Volume Resistivity (500 V)	1.0E+13	1.0E+11	ohms·m	IEC 62631-3-1
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.031 in)	V-0	--		UL 94

Processing Information

Injection	Dry 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	518 to 554 °F
Mold Temperature	176 to 212 °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

