Radiflam® A RV150 AF 339 BK

Radici Group High Performance Polymers - *Polyamide 66*

General Information

Product Description

PA66 flame retardant injection moulding grade with red phosphorus. 15% glass fiber reinforced. Deep black colour.

Suitable for parts requiring fire retardancy and improved stiffness. Rated V-0 at 0.75mm 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	• Good Stiffness	
Uses	• Automotive Applications		
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• GM GMW16428P-PA66-GF15-T1		
Appearance	• Black		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66 GF15 FR(52)		

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/0.325 kg)	44	--	g/10 min	ISO 1133
Molding Shrinkage [2]				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.60	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	870000	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	14900	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.7	--	%	ISO 527-2/1A/5
Flexural Modulus [3]	798000	--	psi	ISO 178
Flexural Stress [3]	22500	--	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	2.8	--	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	18	--	ft·lb/in²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	419	--	°F	ISO 75-2/Af
Vicat Softening Temperature	428	--	°F	ISO 306/B50
Melting Temperature [4]	500	--	°F	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity [5]	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
Volume Resistivity [5]	1.0E+15	1.0E+13	ohms·cm	IEC 62631-3-1
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate (0.118 in)	0.0	--	in/min	ISO 3795
Flame Rating (0.031 in)	V-0	--		UL 94
Glow Wire Flammability Index (0.04 in)	1760	--	°F	IEC 60695-2-12

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	536 to 572	°F
Mold Temperature	176 to 212	°F
Injection Rate	Moderate-Fast	

Notes

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

[2] 280°C Melt Temperature, 80°C Mold Temperature, 60 MPa Cavity Pressure

[3] 0.079 in/min

[4] 10°C/min

[5] 500V