Radiflam® A RV300 AE 333 C BK

Radici Group High Performance Polymers - *Polyamide 66*

General Information

Product Description

PA66 flame retardant injection moulding grade. 30% glass fiber reinforced. Black colour.

Suitable for parts requiring fire retardancy, high stiffness and good mechanical 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, 30% Filler by Weight		
Additive	• Flame Retardant		
Features	• Flame Retardant	• High Stiffness	
Agency Ratings	• EU 2011/10/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66-GF30 FR(17+72)		

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.67	--	g/cm³	ISO 1183
Molding Shrinkage [2]				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.30	--	%	
Water Absorption (Saturation, 73°F, 0.0787 in)	3.7	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	0.90	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.84E+6	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	21800	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.8	--	%	ISO 527-2/1A/5
Flexural Modulus [3]	1.68E+6	--	psi	ISO 178
Flexural Stress [3]	31200	--	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	3.3	--	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	17	--	ft·lb/in²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	464	--	°F	ISO 75-2/Bf
Deflection Temperature Under Load (264 psi, Unannealed)	428	--	°F	ISO 75-2/Af
Vicat Softening Temperature	464	--	°F	ISO 306/B50
Melting Temperature [4]	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
Comparative Tracking Index (Solution A)	400	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating (0.031 in)	V-0	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
0.04 in	1760	--	°F	

0.08 in	1760	--	°F

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