Radiflam® A RV330K AE 1700 NT

Radici Group High Performance Polymers - *Polyamide 66*

General Information

Product Description

PA66 33% glass fibre reinforced, flame retardant, injection moulding grade. Natural colour.

Suitable for parts requiring fire retardancy with high stiffness and good mechanical resistance. Good electrical insulating properties. 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, 33% Filler by Weight		
Additive	• Flame Retardant		
Features	• Electrically Insulating	• Flame Retardant	• High Stiffness
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66-GF33 FR(17+72)		

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.70	--	g/cm³	ISO 1183
Molding Shrinkage [2]				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.30	--	%	
Water Absorption (Saturation, 73°F, 0.0787 in)	4.0	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	1.0	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	2.13E+6	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	24700	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.8	--	%	ISO 527-2/1A/5
Flexural Modulus [3]	1.99E+6	--	psi	ISO 178
Flexural Stress [3]	34800	--	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	4.8	--	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	23	--	ft·lb/in²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	437	--	°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
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	536 to 572 °F
Mold Temperature	176 to 194 °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