Radiflam® AESTUS T2 RV300 HF 333 BK

Radici Group High Performance Polymers - *Polyphthalamide*

General Information

Product Description

PPA flame retardant injection moulding grade, 30% glass fiber reinforced. Halogen and red phosphorus free. High melting point. Black colour.

Suitable for parts requiring fire retardancy along with high stiffness and good mechanical resistance. Suitable for Lead Free Soldering application. Rated V0 according to UL94.

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 • Halogen Free	• High Stiffness • Low (to None) Phosphorus Content	
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA-6T/66-GF30 FR(40)		

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.49	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.40	--	%	
Water Absorption (Saturation, 73°F, 0.0787 in)	0.10	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	1.3	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.67E+6	1.62E+6	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	18900	17400	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.1	2.3	%	ISO 527-2/1A/5
Flexural Modulus [2]	1.61E+6	1.58E+6	psi	ISO 178
Flexural Stress [2]	31200	16400	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	4.8	--	ft·lb/in²	
73°F	4.3	4.8	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	22	--	ft·lb/in²	
73°F	24	--	ft·lb/in²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	536	--	°F	ISO 75-2/Af
Melting Temperature [3]	581	--	°F	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**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)	600	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating				UL 94
0.016 in	V-0	--		
0.06 in	5VA	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.04 in	1760	--	°F	
0.08 in	1760	--	°F	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.04 in	1470	--	°F	
0.08 in	1520	--	°F	

Processing Information

Injection	**Dry**	**Unit**
Drying Temperature - Desiccant Dryer	248	°F
Drying Time - Desiccant Dryer	> 4.0	hr
Dew Point - Desiccant Dryer	< -4	°F
Suggested Max Moisture	0.10	%
Processing (Melt) Temp	590 to 608	°F
Mold Temperature	230 to 266	°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