

Radiflam® A AEK 121 C NAT 2025

Polyamide 66

Radici Plastics

Message:

PA66 flame retardant injection moulding grade. Natural colour.

Suitable for parts requiring flame retardancy. Rated V-0 according to UL-94.

ISO 1043 : PA66 FR(17+20)

General Information				
UL YellowCard		E195505-101510613	E337835-101516801	
Additive		Flame Retardant		
Features		Flame Retardant		
RoHS Compliance		RoHS Compliant		
UL File Number		E116324		
Appearance		Natural Color		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA66 FR(17+20)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	6.5	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3100	--	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	55.0	--	MPa	ISO 527-2/1A/50
Nominal Tensile Strain at Break	20	--	%	ISO 527-2/1A/50
Flexural Modulus ¹	3000	--	MPa	ISO 178
Flexural Stress ²	80.0	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	--	kJ/m ²	ISO 179/1eA
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	180	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	85.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature	205	--	°C	ISO 306/B50
Melting Temperature	260	--	°C	ISO 11357
Electrical	Dry	Conditioned	Unit	Test Method

Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Comparative Tracking Index	300	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	0.0	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	V-0	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
1.00 mm	960	--	°C	
2.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.00 mm	> 775	--	°C	
2.00 mm	> 775	--	°C	
Injection	Dry	Unit		
Drying Temperature - Desiccant Dryer	80.0		°C	
Drying Time - Desiccant Dryer	2.0 to 4.0		hr	
Dew Point - Desiccant Dryer	< -20.0		°C	
Suggested Max Moisture	0.10		%	
Processing (Melt) Temp	270 to 290		°C	
Mold Temperature	60.0 to 80.0		°C	
Injection Rate	Moderate			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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