

Radilon® S V2 181 C NAT

Polyamide 6

Radici Plastics

Message:

PA6 flame retardant injection moulding grade. Natural colour.

Suitable for parts requiring UL-94 rating V2 at 0.8 mm. Typical application: household appliances.

ISO 1043 : PA6 FR(16+20)

General Information				
Additive	Flame Retardant			
Features	Flame Retardant			
Uses	Appliances			
RoHS Compliance	RoHS Compliant			
Appearance	Natural Color			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA6 FR(16+20)			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.26	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3250	--	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	70.0	--	MPa	ISO 527-2/1A/50
Nominal Tensile Strain at Break	15	--	%	ISO 527-2/1A/50
Flexural Modulus ¹	3060	--	MPa	ISO 178
Flexural Stress ²	110	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	--	kJ/m ²	ISO 179/1eA
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	95.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature	195	--	°C	ISO 306/B50
Melting Temperature ³	220	--	°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-2	--		UL 94

Glow Wire Flammability Index				IEC 60695-2-12
1.00 mm	850	--	°C	
2.00 mm	850	--	°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	0.15		%	
Processing (Melt) Temp	250 to 280		°C	
Mold Temperature	70.0 to 80.0		°C	
Injection Rate	Moderate			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10°C/min			

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