

Radilon® A ECP3808 339 NER

Polyamide 66

Radici Plastics

Message:

PA66 30% mineral filled injection moulding grade. Toughened. Black colour
Suitable for parts requiring improved impact strength along with surface planarity.
ISO 1043 : PA66-I-MD30

General Information				
Filler / Reinforcement		Mineral,30% Filler by Weight		
Features		Filled		
		Good Impact Resistance		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA66-I-MD30		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	5.8	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.8	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3050	1550	MPa	ISO 527-2/1A/1
Tensile Stress				ISO 527-2/1A/5
Yield	--	35.0	MPa	
Break	55.0	--	MPa	
Tensile Strain				ISO 527-2/1A/5
Yield	--	19	%	
Break	10	--	%	
Nominal Tensile Strain at Break	--	35	%	ISO 527-2/1A/5
Flexural Modulus ¹	2800	--	MPa	ISO 178
Flexural Stress ²	85.0	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.5	5.0	kJ/m ²	
23°C	6.5	8.0	kJ/m ²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	65	kJ/m ²	
23°C	70	80	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	150	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature	225	--	°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	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 10	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	700	--	°C	IEC 60695-2-12
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	280 to 300		°C	
Mold Temperature	80.0 to 100		°C	
Injection Rate	Moderate-Fast			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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