

Radilon® A CP400 333 NER

Polyamide 66

Radici Plastics

Message:

PA66 40% mineral filled injection moulding grade. Black colour.

Suitable for parts requiring good dimensional stability, reduced shrinkage and low warpage.

ISO 1043 : PA66 MX40

General Information				
Filler / Reinforcement		Mineral,40% Filler by Weight		
Features		Filled		
		Good Dimensional Stability		
		Low Shrinkage		
		Low Warpage		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA66 MX40		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183
Molding Shrinkage ¹				ISO 294-4
Across Flow	1.3	--	%	
Flow	1.2	--	%	
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	5.7	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.8	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5800	3000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	85.0	45.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	7.0	10	%	ISO 527-2/1A/5
Flexural Modulus ²	5300	--	MPa	ISO 178
Flexural Stress ³	150	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.5	--	kJ/m ²	
23°C	5.0	6.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	55	--	kJ/m ²	
23°C	70	80	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	--	°C	ISO 75-2/Af
Vicat Softening Temperature	245	--	°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	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	0.0	--	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.	295°C Melt Temp / 80°C Mold Temp / 30 MPa Cavity Press			
2.	2.0 mm/min			
3.	2.0 mm/min			

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