

Radilon® A CW250UK 3031 BK

Radici Group High Performance Polymers - Polyamide 66

General Information

Product Description

PA66 25% mineral filled injection moulding grade. Improved UV resistance. Black colour.

Suitable for parts requiring good dimensional stability, reduced shrinkage and low warpage. Intended to resist to outdoor exposure.

General

Filler / Reinforcement	• Mineral, 25% Filler by Weight		
Features	• Good Dimensional Stability	• Low Shrinkage	• UV Resistant
	• Good Weather Resistance	• Low Warpage	
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66-MD25		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)				ISO 1133
275°C/2.16 kg	76	--	g/10 min	
Melt Volume-Flow Rate (MVR)				ISO 1133
275°C/2.16 kg	66	--	cm ³ /10min	
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.50	--	%	
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	6.4	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	1.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.03E+6	435000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	13800	7980	psi	ISO 527-2/1A/5
Tensile Strain (Break)	5.0	25	%	ISO 527-2/1A/5
Flexural Modulus ²	972000	406000	psi	ISO 178
Flexural Stress ²	24700	11600	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
73°F	2.4	--	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	17	--	ft·lb/in ²	
73°F	33	--	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ³	500	--	°F	ISO 11357-3

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Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity (500 V)	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
Volume Resistivity (500 V)	1.0E+13	1.0E+11	ohms·m	IEC 62631-3-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.118 in)	0.0	--	in/min	ISO 3795
Flame Rating (0.031 in)	HB	--		UL 94

Processing Information

Injection	Dry	Unit
Drying Temperature - Desiccant Dryer	176	°F
Drying Time - Desiccant Dryer	2.0 to 4.0	hr
Dew Point - Desiccant Dryer	< -4	°F
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	536 to 572	°F
Mold Temperature	176 to 212	°F
Injection Rate	Moderate-Fast	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min

³ 10°C/min