

Radilon® A RCV3015FC 306 BK

Radici Group High Performance Polymers - Polyamide 66

General Information

Product Description

PA66 30% glass fibre and glass beads reinforced injection moulding grade. Black colour.

Suitable for parts requiring good stiffness and dimensional stability, reduced shrinkage and low warpage. Appropriate for foodstuff contact.

General

Filler / Reinforcement	• Glass Bead\Glass Fiber, 30% Filler by Weight		
Features	• Food Contact Acceptable	• Good Stiffness	• Low Warpage
	• Good Dimensional Stability	• Low Shrinkage	
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66-(GF+GB)30		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.50	--	%	
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	7.0	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	899000	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	16700	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	--	%	ISO 527-2/1A/5
Flexural Modulus ²	827000	--	psi	ISO 178
Flexural Stress ²	26800	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F	17	--	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/Bf
66 psi, Unannealed	491	--	°F	
Deflection Temperature Under Load				ISO 75-2/Af
264 psi, Unannealed	446	--	°F	
Melting Temperature ³	500	--	°F	ISO 11357-3
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

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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
Glow Wire Flammability Index				IEC 60695-2-12
0.08 in	1290	--	°F	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.08 in	1340	--	°F	

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