

Radilon® A RV350USR 333 BK

Radici Group High Performance Polymers - Polyamide 66

General Information

Product Description

PA66 35% glass fiber reinforced injection moulding grade. Improved resistance to uric acid solutions. Black colour.

Material especially developed for automotive under the hood applications, employed in selective catalytic reductions (SCR) systems.

General

Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Features	• Acid Resistant
Uses	• Automotive Under the Hood
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA66-GF35

Properties¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	5.5	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	1.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.60E+6	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	27600	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	--	%	ISO 527-2/1A/5
Flexural Modulus ²	1.52E+6	--	psi	ISO 178
Flexural Stress ²	43500	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
73°F	5.2	--	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F	38	--	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/Af
264 psi, Unannealed	482	--	°F	
Vicat Softening Temperature	482	--	°F	ISO 306/B50
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

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Electrical	Dry	Conditioned	Unit	Test Method
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
Glow Wire Flammability Index 0.08 in	1290	--	°F	IEC 60695-2-12

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