

Radilon® S RV350UK 3761 BK

Radici Group High Performance Polymers - Polyamide 6

General Information

Product Description

PA6 35% glass fiber reinforced injection moulding grade. Heat stabilized. Improved UV resistance. Black color

Suitable for parts which must resist to outdoor exposure, requiring high stiffness, good mechanical resistance and good heat ageing properties.

General

Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Additive	• Heat Stabilizer
Features	• Good Weather Resistance • Heat Stabilized • Heat Aging Resistant • High Stiffness • UV Resistant
Uses	• Automotive Applications
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA6-T GF35

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.63E+6	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	25400	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	--	%	ISO 527-2/1A/5
Flexural Modulus ²	1.58E+6	--	psi	ISO 178
Flexural Stress ²	39200	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	3.9	--	ft·lb/in ²	
73°F	5.7	--	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F	34	--	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/Af
264 psi, Unannealed	401	--	°F	
Melting Temperature ³	428	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ⁴	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
Volume Resistivity ⁴	1.0E+15	1.0E+13	ohms·cm	IEC 62631-3-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0787 in)	< 1.2	--	in/min	ISO 3795
Flame Rating (0.031 in)	HB	--		UL 94

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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	464 to 536	°F
Mold Temperature	176 to 194	°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

⁴ 500V