

Radilon® A RV300B1W 3733 BK

Radici Group High Performance Polymers - Polyamide 66

General Information

Product Description

PA66 30% glass fiber reinforced injection moulding grade, heat stabilized, wear resistant black colour

Suitable for parts requiring high stiffness and good wear resistance

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Stabilized • High Stiffness • Wear Resistant
Uses	• Automotive Applications
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA66-T GF30

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F, 0.0787 in)	7.0	%	ISO 62
Water Absorption Equilibrium, 73°F, 0.0787 in, 50% RH	1.7	%	ISO 62
Viscosity Index - Sulfuric Acid	3880	in ³ /lb	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.42E+6	psi	ISO 527-1/1A/1
Tensile Stress (Break)	25400	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.7	%	ISO 527-2/1A/5
Flexural Modulus ²	1.35E+6	psi	ISO 178
Flexural Stress ²	37700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.3	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	26	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	3.3	ft·lb/in ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	500	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	473	°F	ISO 75-2/Af
Melting Temperature ³	500	°F	ISO 11357-3
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.031 in)	HB		UL 94

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Processing Information

Injection	Nominal Value	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	0.10	%
Processing (Melt) Temp	527 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