

Radilon® A RMA4025W 3733 BK

Radici Group High Performance Polymers - Polyamide 66

General Information

Product Description

PA66 40% glass fibre and mineral reinforced injection moulding grade, heat stabilized. Black colour.

Suitable for parts requiring high stiffness, excellent heat ageing properties retention, good dimensional stability, and flatness.

General

Filler / Reinforcement	• Glass Fiber\Mineral, 40% Filler by Weight
Additive	• Heat Stabilizer
Features	• Good Dimensional Stability • Heat Stabilized • Heat Aging Resistant • High Stiffness
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 (GF+MX)40

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) 275°C/0.325 kg	27	--	cm ³ /10min	ISO 1133
Viscosity Index - Sulfuric Acid	3880	--	in ³ /lb	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.74E+6	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	21800	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.1	--	%	ISO 527-2/1A/5
Flexural Modulus ²	1.70E+6	--	psi	ISO 178
Flexural Stress ²	32600	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength 73°F	3.6	--	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F	22	--	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength -22°F	2.9	--	ft·lb/in ²	ISO 180/1A
73°F	3.6	--	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed	493	--	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	460	--	°F	ISO 75-2/Af
Melting Temperature ³	500	--	°F	ISO 11357-3

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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
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	0.10	%
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

⁴ 500V