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			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber\Mineral, 40% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Dimensional Stability • Heat Aging Resistant	• Heat Stabilized • High Stiffness	
Uses	• Automotive Applications		
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• FORD WRS-M4D823-B2		
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/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/0.325 kg)	27	--	cm³/10min	ISO 1133
Viscosity Index - Sulfuric Acid	3880	--	in³/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/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	22	--	ft·lb/in²	ISO 179/1eU
Notched Izod Impact Strength				ISO 180/1A
-22°F	2.9	--	ft·lb/in²	
73°F	3.6	--	ft·lb/in²	
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
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