Radilon® A LRV600W 333 BK

Radici Group High Performance Polymers - Polyamide 66

General Information

Product Description

PA66 60% glass fiber reinforced injection moulding grade. Good flowability, heat stabilized. Black colour.

Suitable for parts requiring very high stiffness and high mechanical resistance, as in case of metal replacement applications. Good resistance to thermal ageing.

General		
Filler / Reinforcement	• Glass Fiber, 60% Filler by Weight	
Additive	• Heat Stabilizer	
Features	• Good Flow • Heat Aging Resistant	• Heat Stabilized • High Stiffness
Uses	• Metal Replacement	
Agency Ratings	• EU 2011/65/EC	
RoHS Compliance	• RoHS Compliant	
Appearance	• Black	
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• PA66-GF60	

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.70	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	3.7	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	1.0	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	3.05E+6	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	37700	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	--	%	ISO 527-2/1A/5
Flexural Modulus [2]	2.97E+6	--	psi	ISO 178
Flexural Stress [2]	58000	--	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	7.6	--	ft·lb/in²	
73°F	8.1	--	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	45	--	ft·lb/in²	
73°F	48	--	ft·lb/in²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ISO 75-2/Af
264 psi, Unannealed	500	--	°F	
Melting Temperature [3]	500	--	°F	ISO 11357-3

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Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity (500 V)	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
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				IEC 60695-2-12
0.08 in	1290	--	°F	

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