Radilon® A RV350 100 NT

Radici Group High Performance Polymers - Polyamide 66

General Information

Product Description

PA66 35% glass fiber reinforced injection moulding grade. Natural colour.

Suitable for parts requiring high stiffness and good mechanical resistance.

General	
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Features	• High Stiffness
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA66-GF35

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	6.3	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	1.5	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.48E+6	1.45E+6	psi	ISO 527-1/1A/1
Tensile Stress (Break)	28300	18900	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.7	3.5	%	ISO 527-2/1A/5
Flexural Modulus [2]	1.31E+6	--	psi	ISO 178
Flexural Stress [2]	42100	--	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	4.0	--	ft·lb/in²	
73°F	5.0	6.9	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	41	--	ft·lb/in²	
73°F	48	49	ft·lb/in²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ISO 75-2/Bf
66 psi, Unannealed	482	--	°F	
Deflection Temperature Under Load				ISO 75-2/Af
264 psi, Unannealed	455	--	°F	
Vicat Softening Temperature	482	--	°F	ISO 306/B50

Radilon® A RV350 100 NT

Radici Group High Performance Polymers - Polyamide 66

Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature [3]	500	--	°F	ISO 11357-3
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
Comparative Tracking Index				IEC 60112
Solution A	600	--	V	
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