

# Radilon® A RV200L 100 NT

## Radici Group High Performance Polymers - Polyamide 66

### General Information

#### Product Description

PA66 20% glass fiber reinforced injection moulding grade. Lubricated. Natural colour.

Suitable for parts requiring improved stiffness and easier flow.

#### General

Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• Lubricant
Features	• Good Flow • Good Stiffness • Lubricated
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA66-GF20

### Properties <sup>1</sup>

Physical	Dry	Conditioned	Unit	Test Method
Density	1.27	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.40	--	%	
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	7.8	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	2.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	965000	595000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	21000	13100	psi	ISO 527-2/1A/5
Tensile Strain (Break)	4.0	5.0	%	ISO 527-2/1A/5
Flexural Modulus <sup>2</sup>	841000	500000	psi	ISO 178
Flexural Stress <sup>2</sup>	31200	18100	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	3.8	--	ft·lb/in <sup>2</sup>	
73°F	4.5	5.7	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	21	--	ft·lb/in <sup>2</sup>	
73°F	29	31	ft·lb/in <sup>2</sup>	
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	428	--	°F	

**Radilon® A RV200L 100 NT**  
**Radici Group High Performance Polymers - Polyamide 66**

<b>Thermal</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Vicat Softening Temperature	464	--	°F	ISO 306/B50
Melting Temperature <sup>3</sup>	500	--	°F	ISO 11357-3
<b>Electrical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity (500 V)	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
Volume Resistivity (500 V)	1.0E+13	1.0E+13	ohms·m	IEC 62631-3-1
Comparative Tracking Index Solution A	600	--	V	IEC 60112
<b>Flammability</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Burning Rate (0.118 in)	0.0	--	in/min	ISO 3795
Flame Rating (0.031 in)	HB	--		UL 94
Glow Wire Flammability Index 0.08 in	1290	--	°F	IEC 60695-2-12
Glow Wire Ignition Temperature 0.08 in	1340	--	°F	IEC 60695-2-13

**Processing Information**

<b>Injection</b>	<b>Dry</b>	<b>Unit</b>
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**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 0.079 in/min

<sup>3</sup> 10°C/min