

**Radilon® A NER GF350/1K**

 Radici Group High Performance Polymers - *Polyamide 66*
**General Information**
**Product Description**

PA66 35% glass fibre reinforced injection moulding grade. Heat stabilized. Black colour.

Grade containing re-compounded polymer, from selected raw materials coming from polymerization, fibre and compounding plants of Radici Group.

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Additive	• Heat Stabilizer
Recycled Content	• Yes
Features	• Heat Stabilized
Uses	• Automotive Applications
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• FORD WRS-M4D673-B2
Appearance	• Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA66-T GF35

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Density	1.40	--	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	1.52E+6	1.03E+6	psi	ISO 527-1/1A/1
Tensile Stress (Break)	24700	16000	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	3.5	%	ISO 527-2/1A/5
Flexural Modulus <sup>2</sup>	1.38E+6	--	psi	ISO 178
Flexural Stress <sup>2</sup>	37700	--	psi	ISO 178
<b>Impact</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength (73°F)	4.3	7.1	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	31	38	ft·lb/in <sup>2</sup>	ISO 179/1eU
<b>Thermal</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (264 psi, Unannealed)	464	--	°F	ISO 75-2/ Af
Melting Temperature <sup>3</sup>	500	--	°F	ISO 11357-3

**Processing Information**

<b>Injection</b>	<b>Dry 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	0.10 %
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
