

## Heramid® S NER GFP3010K

Radici Group High Performance Polymers - *Polyamide 6*

### General Information

#### Product Description

PA6 30% glass fiber and mineral filler reinforced injection moulding grade. Heat stabilized Black colour.

Post-industrial grade produced with selected polymers coming from polymerization, fibres and compounding plants.

#### General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber/Mineral, 30% Filler by Weight
Additive	• Heat Stabilizer
Recycled Content	• Post-Industrial (PIR)/Pre-Consumer
Features	• Heat Stabilized
Uses	• Automotive Applications
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• FORD WRS-M4D968-B4
Appearance	• Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA6 (GF+MX)30

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

Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	972000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	12300	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	%	ISO 527-2/1A/5
Flexural Modulus <sup>2</sup>	870000	psi	ISO 178
Flexural Stress <sup>2</sup>	18100	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	19	ft·lb/in <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	374	°F	ISO 75-2/Af
Melting Temperature <sup>3</sup>	428	°F	ISO 11357-3

### Processing Information

Injection	Nominal Value	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	464 to 536	°F
Mold Temperature	176 to 194	°F
Injection Rate	Moderate-Fast	

