

# Heramid® S GFM3015W 3733 BK

## Radici Group High Performance Polymers - Polyamide 6

### General Information

#### Product Description

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

Post-industrial grade produced with selected polymers coming from polymerization, fibres and compounding plants. Suitable for parts requiring improved stiffness and dimensional stability, reduced shrinkage and low warpage.

#### General

Filler / Reinforcement	• Glass Fiber/Mineral, 30% Filler by Weight
Additive	• Heat Stabilizer
Recycled Content	• Post-Industrial (PIR)/Pre-Consumer
Features	• Good Dimensional Stability • Heat Stabilized • Good Stiffness • Low Shrinkage • Low Warpage
Uses	• Automotive Applications
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA6-T(GF+M)30

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

Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm <sup>3</sup>	ISO 1183
Viscosity Index - Sulfuric Acid	3880	in <sup>2</sup> /lb	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.31E+6	psi	ISO 527-1/1A/1
Tensile Stress (Break)	19100	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.4	%	ISO 527-2/1A/5
Flexural Modulus <sup>2</sup>	1.17E+6	psi	ISO 178
Flexural Stress <sup>2</sup>	31900	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.3	ft·lb/in <sup>2</sup>	ISO 179/1eA
Notched Izod Impact Strength (73°F)	2.5	ft·lb/in <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	378	°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	%

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Injection	Nominal Value	Unit
Processing (Melt) Temp	464 to 536	°F
Mold Temperature	176 to 194	°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