

# Heramid® A EGF015W 3733 BK

## Radici Group High Performance Polymers - Polyamide 66

### General Information

#### Product Description

PA66 15% glass fiber reinforced injection moulding grade, impact modified. Heat stabilized. Black colour.

Post-industrial grade produced with selected polymers coming from polymerization, fibres and compounding plants. Suitable for parts requiring stiffness, impact, heat resistance, and good aesthetics.

#### General

Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Additive	• Heat Stabilizer
Recycled Content	• Post-Industrial (PIR)/Pre-Consumer
Features	• Good Heat Resistance • Good Stiffness • Good Impact Resistance • Heat Stabilized • Pleasing Surface Appearance
Uses	• Automotive Applications
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA66-IT-GF15

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

Physical	Dry	Conditioned	Unit	Test Method
Density	1.20	--	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)				ISO 1133
275°C/1.0 kg	7.0	--	g/10 min	
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.90	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	696000	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	12600	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.8	--	%	ISO 527-2/1A/5
Flexural Modulus <sup>2</sup>	645000	--	psi	ISO 178
Flexural Stress <sup>2</sup>	21000	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
73°F	3.4	--	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F	26	--	ft·lb/in <sup>2</sup>	
Notched Izod Impact Strength				ISO 180/1A
73°F	3.6	--	ft·lb/in <sup>2</sup>	
Unnotched Izod Impact Strength				ISO 180/1U
73°F	21	--	ft·lb/in <sup>2</sup>	

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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed	473	--	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	437	--	°F	ISO 75-2/Af
Vicat Softening Temperature	455	--	°F	ISO 306/B50
Melting Temperature <sup>3</sup>	500	--	°F	ISO 11357-3

### 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	0.10	%
Processing (Melt) Temp	527 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