

Heramid® A NER MP/1 K

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

PA66 injection moulding grade. Toughened, heat stabilizaed. 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	
Additive	• Impact Modifier		
Recycled Content	• Post-Industrial (PIR)/Pre-Consumer		
Features	• Good Toughness	• Heat Stabilized	
Uses	• Automotive Applications		
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• FORD WRS-M4D706-B2	• STELLANTIS MS-DB-41 CPN5092	
Appearance	• Black		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66-IT		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.12	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/1.0 kg)	8.0	--	g/10 min	ISO 1133
Molding Shrinkage ²				ISO 294-4
Across Flow	1.5	--	%	
Flow	1.4	--	%	
Water Absorption (Saturation, 73°F, 0.0787 in)	7.5	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	2.5	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	348000	218000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	8700	6530	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	6.0	--	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	33	--	%	ISO 527-2/1A/50
Flexural Modulus ³	319000	--	psi	ISO 178
Flexural Stress ³	13100	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	6.2 ft·lb/in ²	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	347	--	°F	ISO 75-2/Bf
Deflection Temperature Under Load (264 psi, Unannealed)	149	--	°F	ISO 75-2/Af
Melting Temperature ⁴	500	--	°F	ISO 11357-3
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.118 in)	< 3.9	--	in/min	ISO 3795
Flame Rating (0.031 in)	HB	--		UL 94

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	518 to 554 °F
Mold Temperature	158 to 176 °F
Injection Rate	Moderate-Fast

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 290°C Melt Temperature, 70°C Mold Temperature, 60 MPa Cavity Pressure
- ³ 0.079 in/min
- ⁴ 10°C/min

