

## Radilon® A HSK 333 BK

Radici Group High Performance Polymers - *Polyamide 66*

### General Information

#### Product Description

PA66 injection moulding grade. Internally lubricated, fast cycles, easy mould release. Heat stabilized. Black colour.

Suitable for high productivity applications like fasteners, connectors, cable ties.

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Heat Stabilizer		
Features	• Fast Molding Cycle	• Heat Stabilized	
	• Good Mold Release	• Lubricated	
Uses	• Automotive Applications	• Connectors	• Fasteners
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• GM GMW16036P-PA66		
Appearance	• Black		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66-T		

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

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/0.325 kg)	8.0	cm <sup>3</sup> /10min	ISO 1133
Water Absorption (Saturation, 73°F, 0.0787 in)	8.9	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	2.1	%	ISO 62
Viscosity Index - Sulfuric Acid	3880	in <sup>3</sup> /lb	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	493000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	12600	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	4.1	%	ISO 527-2/1A/50
Flexural Modulus <sup>2</sup>	464000	psi	ISO 178
Flexural Stress <sup>2</sup>	17000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.4	ft·lb/in <sup>2</sup>	ISO 179/1eA
Notched Izod Impact Strength (73°F)	2.3	ft·lb/in <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	428	°F	ISO 75-2/Bf
Deflection Temperature Under Load (264 psi, Unannealed)	167	°F	ISO 75-2/Af
Vicat Softening Temperature	304	°F	ISO 306/B50
Melting Temperature <sup>3</sup>	504	°F	ISO 11357-3
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.031 in)	V-2		UL 94

### 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	518 to 554 °F
Mold Temperature	158 to 194 °F
Injection Rate	Moderate

#### 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

