

Radilon® A HSK 372 M 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 • Asia Pacific	• Europe • Latin America	• North America
Additive	• Heat Stabilizer		
Features	• Fast Molding Cycle • Good Mold Release	• Heat Stabilized • Lubricated	
Uses	• Automotive Applications	• Connectors	• Fasteners
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• FORD WSK-M4D647-A • FORD WSK-M4D648-A	• GM GMW16036P-PA66 • IMDS ID 2377952 Color: Black	• STELLANTIS MS-DB-41 CPN1899
Appearance	• Black		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66-T		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Molding Shrinkage ²				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.80	--	%	
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	3960	--	in ³ /lb	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	486000	189000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	13100	7980	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0	30	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	8.5	0.0	%	ISO 527-2/1A/50
Flexural Modulus ³	464000	--	psi	ISO 178
Flexural Stress ³	17400	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	2.4	--	ft·lb/in ²	
73°F	2.6	5.7	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	410	--	°F	ISO 75-2/Bf
Deflection Temperature Under Load (264 psi, Unannealed)	158	--	°F	ISO 75-2/Af
Vicat Softening Temperature	464	--	°F	ISO 306/B50
Melting Temperature ⁴	500	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ⁵	1.0E+12	1.0E+10	ohms	IEC 62631-3-2



Volume Resistivity ⁵	1.0E+15	1.0E+13	ohms·cm	IEC 62631-3-1
Comparative Tracking Index (Solution A)	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.118 in)	0.0	--	in/min	ISO 3795
Flame Rating (0.031 in)	V-2	--		UL 94
Glow Wire Flammability Index (0.08 in)	1380	--	°F	IEC 60695-2-12

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	0.15 %
Processing (Melt) Temp	518 to 554 °F
Mold Temperature	158 to 194 °F
Injection Rate	Moderate

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
- ⁵ 500V

