

Ultramid® A 3HG6 HR BK23591 (Cond) Polyamide 66

Product Description

Ultramid A3HG6 HR BK23591 is a 30% glass reinforced, pigmented black, injection molding PA66 grade. It offers good resistance to hydrolysis.

Typical applications include automotive radiator mounting frame.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight
Features	• Hydrolysis Resistant
Uses	• Automotive Applications • Automotive Under the Hood
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	5.5	%	
Equilibrium, 23°C, 50% RH	1.7	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6800	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break, -40°C	231	MPa	
Break, 23°C	120	MPa	
Tensile Strain (Break, 23°C)	5.4	%	ISO 527-2
Flexural Modulus (23°C)	5800	MPa	ISO 178
Flexural Strength (23°C)	200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	90	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	20.0	kJ/m ²	ISO 180
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	175	MPa	ISO 2039-1

Notes

¹ Typical properties: these are not to be construed as specifications.

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