

Ultramid® A3HG6 HR

Polyamide 66

BASF Corporation

Message:

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

Applications

Typical applications include automotive radiator mounting frame.

General Information		
UL YellowCard	E41871-233735	E36632-102062539
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight	
Features	Hydrolysis resistance	
	Oil resistance	
Uses	Application in Automobile Field	
Agency Ratings	EC 1907/2006 (REACH)	
RoHS Compliance	RoHS compliance	
Forms	Particle	
Processing Method	Injection molding	
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)	
	Secant Modulus vs. Strain (ISO 11403-1)	
	Viscosity vs. Shear Rate (ISO 11403-2)	

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR)	25.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturated, 23°C	5.5	%	ISO 62
Equilibrium, 23°C, 50% RH	1.7	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	10100	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	188	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.3	%	ISO 527-2
Flexural Modulus (23°C)	8850	MPa	ISO 178
Flexural Stress (23°C)	275	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	9.0	kJ/m ²	ISO 179
23°C	11	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-30°C	63	kJ/m ²	ISO 179

23°C	77	kJ/m ²	ISO 179
Notched Izod Impact			ISO 180
-40°C	8.3	kJ/m ²	ISO 180
23°C	11	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	249	°C	ISO 75-2/A
Melting Temperature (DSC)	260	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	280 - 305	°C	
Mold Temperature	80 - 90	°C	
Injection Pressure	3.50 - 12.5	MPa	
Injection Rate	Fast		

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