

Ultramid® A3HG6 HR

BASF Corporation - Polyamide 66

Monday, November 4, 2019

General Information

Product Description

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.

Commercial: Active		
• Europe	North America	
 Glass Fiber, 30% Filler by V 	Veight	
 Hydrolysis Resistant 	Oil Resistant	
 Automotive Applications 		
• EC 1907/2006 (REACH)		
 RoHS Compliant 		
• FORD WSK-M4D752-A	• FORD WSS-M4D752-B1	GM GMW16270P-PA66-GF30 Color: Natural
• Pellets		
 Injection Molding 		
	 Europe Glass Fiber, 30% Filler by V Hydrolysis Resistant Automotive Applications EC 1907/2006 (REACH) RoHS Compliant FORD WSK-M4D752-A Pellets 	 Europe North America Glass Fiber, 30% Filler by Weight Hydrolysis Resistant Oil Resistant Automotive Applications EC 1907/2006 (REACH) RoHS Compliant FORD WSK-M4D752-A FORD WSS-M4D752-B1 Pellets

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Density	1.37	g/cm³	ISO 1183	
Melt Volume-Flow Rate (MVR)	25	cm³/10min	ISO 1133	
Water Absorption (Saturation, 73°F)	5.5	%	ISO 62	
Water Absorption (Equilibrium, 73°F, 50% RH)	1.7	%	ISO 62	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus (73°F)	1.46E+6	psi	ISO 527-2	
Tensile Stress (Break, 73°F)	27300	psi	ISO 527-2	
Tensile Strain (Break, 73°F)	3.3	%	ISO 527-2	
Flexural Modulus (73°F)	1.28E+6	psi	ISO 178	
Flexural Stress (73°F)	39900	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength			ISO 179	
-22°F	4.3	ft·lb/in²		
73°F	5.2	ft·lb/in²		
Charpy Unnotched Impact Strength			ISO 179	
-22°F	30	ft·lb/in²		
73°F	37	ft·lb/in²		
Notched Izod Impact Strength			ISO 180	
-40°F	3.9	ft·lb/in²		
73°F	5.2	ft·lb/in²		
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (264 psi, Unannealed)	480	°F	ISO 75-2/A	
Melting Temperature (DSC)	500	°F	ISO 3146	



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Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature	176	°F	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.15	%	
Processing (Melt) Temp	536 to 581	°F	
Mold Temperature	176 to 194	°F	
Injection Pressure	508 to 1810	psi	
Injection Rate	Fast		

Notes

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