

Ultramid® A3WG7 HR BK23591

Polyamide 66

BASF Corporation

Message:

Ultramid A3WG7 HR BK23591 is a 35% glass fiber reinforced, heat stabilized, pigmented black, injection molding PA66 for hydrolysis resistant applications.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight		
Additive	heat stabilizer		
Features	Hydrolysis resistance		
	Oil resistance		
	Thermal Stability		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	5.0	%	ISO 62
Equilibrium, 23°C, 50% RH	1.6	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	11400	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	205	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.1	%	ISO 527-2
Flexural Modulus (23°C)	11000	MPa	ISO 178
Flexural Stress (23°C)	306	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	9.9	kJ/m ²	ISO 179
23°C	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-30°C	72	kJ/m ²	ISO 179
23°C	89	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	12	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	250	°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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