

Ultramid® A3Z HP UN

Polyamide 66

BASF Corporation

Message:

Ultramid A3Z HP UN is an unreinforced, impact modified, heat stabilized, high flow PA66 injection molding grade. Ultramid A3Z HP UN offers a unique combination of maximum toughness and impact resistance with excellent high flow processability.

General Information				
Additive		Heat Stabilizer Impact Modifier		
Features		Good Processability Good Toughness Heat Stabilized High Flow High Impact Resistance Impact Modified Oil Resistant		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.07	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	1900	1060	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	50.0	--	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	5.0	--	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	45	> 50	%	ISO 527-2
Flexural Modulus (23°C)	1800	880	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	28	19	kJ/m ²	
23°C	90	110	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	No Break	No Break		
23°C	No Break	No Break		
Notched Izod Impact Strength				ISO 180

-40°C	23	18	kJ/m ²	
23°C	80	99	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	64.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	260	--	°C	ISO 3146
Flammability	Dry	Conditioned		Test Method
Flame Rating				UL 94
1.50 mm	HB	--		
3.00 mm	HB	--		
Injection	Dry	Unit		
Drying Temperature	60.0		°C	
Drying Time	1.0 to 2.0		hr	
Suggested Max Moisture	0.040 to 0.20		%	
Processing (Melt) Temp	288 to 305		°C	
Mold Temperature	60.0 to 100		°C	
Injection Pressure	34.5 to 124		MPa	
Injection Rate	Fast			
Back Pressure	0.00 to 0.350		MPa	
Screw Speed	40 to 80		rpm	
Screw Compression Ratio	3.0:1.0 to 4.0:1.0			

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