

Ultramid® A3Z HP

Polyamide 66

BASF Corporation

Message:

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

General Information			
UL YellowCard	E36632-641862		
Additive	Heat Stabilizer		
	Impact Modifier		
Features	Good Processability		
	Heat Stabilized		
	High Flow		
	High Impact Resistance		
	Impact Modified		
	Oil Resistant		
	Ultra High Toughness		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1900	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	%	ISO 527-2
Flexural Modulus (23°C)	1800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	28	kJ/m ²	
23°C	90	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180

-40°C	23	kJ/m ²	
23°C	80	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	64.0	°C	ISO 75-2/A
Melting Temperature (DSC)	260	°C	ISO 3146
Injection	Nominal Value	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	3.50 to 12.5	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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