

Ultramid® A 3Z HP

Polyamide 66

BASF Corporation

Product Description

Ultramid A3Z HP is an reinforced, 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

Material Status	• Commercial: Active
Availability	• North America
Additive	• Heat Stabilizer • Impact Modifier
Features	• Good Colorability • Heat Stabilized • Impact Modified • Good Processability • High Flow • Oil Resistant
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.07	g/cm ³	ASTM D792
--	1070	kg/m ³	ISO 1183 ²

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	1900	MPa	ISO 527-2 ²
Tensile Stress (Yield)	50.0	MPa	ISO 527-2 ²
Tensile Strain (Yield)	5.0	%	ISO 527-2 ²
Nominal strain at break	45	%	ISO 527-2 ²
Flexural Modulus (23°C)	1800	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength			ISO 179/1eA ²
-30°C	28.0	kJ/m ²	
23°C	90.0	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	23.0	kJ/m ²	
23°C	80.0	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	64.0	°C	ISO 75-2 ²
Melting Temperature	260	°C	ASTM D3418 ISO 3146

Injection	Nominal Value	Unit
Drying Temperature	60.0	°C
Drying Time	1.0 to 2.0	hr
Suggested Max Moisture	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	

Notes

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

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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