



Ultramid® A3Z HP UV BK23220

BASF Corporation - Polyamide 66

Monday, November 4, 2019

General Information

Product Description

Ultramid A3Z HP UV BK23220 is an impact modified PA66 containing heat and ultraviolet light stabilizers. Designed for maximum toughness at low temperatures, Ultramid A3Z HP UV BK23220 offers a unique combination of impact performance and excellent processability.

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Heat Stabilizer • Impact Modifier • UV Stabilizer
Features	• Excellent Processability • Impact Modified • Good Impact Resistance • Low Temperature Toughness • UV Stabilized • Heat Stabilized • Oil Resistant
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• GM GMP.PA66.074 Color: Black • GM GMP.PA66.078 Color: Black • GM GMW16558P-PA66-T2 Color: Black
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 73°F)	6670	psi	ISO 527-2
Nominal Tensile Strain at Break (73°F)	50	%	ISO 527-2
Flexural Modulus (73°F)	247000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180
-40°F	10	ft-lb/in ²	
73°F	39	ft-lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	145	°F	ISO 75-2/A
Melting Temperature (DSC)	496	°F	ISO 3146

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	536 to 579	°F
Mold Temperature	140 to 212	°F
Injection Pressure	508 to 1810	psi
Back Pressure	0.00 to 50.8	psi
Screw Speed	40 to 80	rpm

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Injection	Nominal Value	Unit
Screw Compression Ratio	3.0:1.0 to 4.0:1.0	

Notes

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