Ultramid® A3ZM2 BK30564

Polyamide 66

BASF Corporation

Message:

Ultramid A3ZM2 BK30564 is a specially formulated, non-conductive polyamide based engineering resin for off-line paint applications. The A3ZM2 BK30564 is designed to provide high thermal and chemical resistance, predictable dimensional stability, thin wall processing and a Class A surface.
Applications
Typical applications include automotive mirror shells and fuel doors and automotive and industrial panels.

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Features	Good Chemical Resistance Good Dimensional Stability High Heat Resistance Oil Resistant Paintable			
Uses	Automotive Applications Industrial Applications Thin-walled Parts			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.15	--	g/cm³	ISO 1183
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2850	1720	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield, 23°C	51.0	38.0	MPa	
Break, 23°C	49.0	37.0	MPa	
Tensile Strain				ISO 527-2
Yield, 23°C	4.1	71	%	
Break, 23°C	15	73	%	
Flexural Modulus (23°C)	2880	1730	MPa	ISO 178
Flexural Stress (23°C)	86.0	50.0	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179

-30°C	5.4	4.5	kJ/m²	
23°C	8.5	11	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	130	150	kJ/m²	
23°C	160 kJ/m²	No Break		
Notched Izod Impact Strength				ISO 180
-40°C	5.5	4.7	kJ/m²	
23°C	8.1	11	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	192	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	77.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	260	--	°C	ISO 3146
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Suggested Max Moisture	0.15		%	
Processing (Melt) Temp	280 to 305		°C	
Mold Temperature	80.0 to 90.0		°C	
Injection Pressure	3.50 to 12.5		MPa	
Injection Rate	Fast			

Recommended distributors for this material

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