

Ultramid® A3Z3

Polyamide 66

BASF Corporation

Message:

Injection moulding grade, mean to high impact for technical parts such as cable ducts with injection moulded special hinges, wall plugs, fasteners and clips.

General Information				
Features		High Impact Resistance		
		Oil Resistant		
Uses		Fasteners		
		Plugs		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm ³	ISO 1183
Apparent Density	0.70	--	g/cm ³	
Water Absorption				ISO 62
Saturation, 23°C	6.5 to 7.5	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2000	1200	MPa	ISO 527-2
Tensile Stress (Yield)	55.0	40.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	10	20	%	ISO 527-2/50
Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	25	--	kJ/m ²	
23°C	60	80	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	170	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.10	5.00		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.10		IEC 60250
Comparative Tracking Index (Solution A)	--	600	V	IEC 60112
Additional Information	Dry	Conditioned		Test Method
Automotive Materials (> 1.00 mm)	Passed	--		FMVSS 302
Polymer Abbreviation	PA66-I	--		
Injection	Dry	Unit		
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	70.0 to 80.0		°C	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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