

**Ultramid® B3Z1**  
PA6

BASF

Rheological properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	82 / *	cm <sup>3</sup> /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-

Mechanical Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2500 / 900	MPa	ISO 527
Yield stress	65 / 35	MPa	ISO 527
Yield strain	4 / 20	%	ISO 527
Charpy impact strength (+23°C)	no break / no break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	no break / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	16 / 30	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	14 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Flexural modulus (23°C)	2100 / 600	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	60 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	180 / *	°C	ISO 75-1/-2

Electrical Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Relative permittivity, 1MHz	3.4 / 6	-	IEC 62631-2-1
Dissipation factor, 1MHz	150 / 2500	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Comparative tracking index	600 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Water absorption	9.5 / *	%	Sim. to ISO 62
Humidity absorption	2.3 / *	%	Sim. to ISO 62
Density	1110 / -	kg/m <sup>3</sup>	ISO 1183
Bulk density	700	kg/m <sup>3</sup>	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	240 - 260	°C	-
Mold temperature	40 - 80	°C	-

**Characteristics**

**Processing**

Injection Molding

**Special Characteristics**

Impact modified

**Delivery form**

Pellets

**Applications**

Automotive, Building Construction, Electrical and Electronical

**Disclaimer**

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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