



Ultramid® Exp. F3Z Balance **PA66**

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	132 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	11 / *	kg	-
Molding shrinkage, parallel	0.6 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	1000 / 440	MPa	ISO 527
Yield stress	29 / 22	MPa	ISO 527
Yield strain	4.3 / 27	%	ISO 527
Nominal strain at break	250 / 198	%	ISO 527
Impact Strength (Charpy), +23°C	no break / no break	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	no break / no break	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	106 / no break	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	26 / 27	kJ/m²	ISO 179/1eA

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	194 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	36 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	41 / *	°C	ISO 75-1/-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1030 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	220 - 250	°C	-
Mold temperature	20 - 40	°C	-

Characteristics

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Injection	Moldin

Injection Molding

Features Good Adhesion

Delivery form

Pellets

Chemical Resistance

General Chemical Resistance

Special Characteristics

Transparent

Applications Sports Equipment

Disclaimer

Liability Exclusion

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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Important: irrespective of product type or designation, ALBIS does not recommend or support the use of any products it supplies which fall into the following medical, pharmaceutical or diagnostic application categories:

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- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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