

Ultramid® B3S HP R01
PA6

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	165 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3200 / -	MPa	ISO 527
Yield stress	80 / -	MPa	ISO 527
Yield strain	3.7 / -	%	ISO 527
Nominal strain at break	18 / -	%	ISO 527
Notched Impact Strength (Charpy), +23°C	4.8 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	3.4 / -	kJ/m²	ISO 179/1eA

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	10 / *	%	Sim. to ISO 62
Humidity absorption	3.4 / *	%	Sim. to ISO 62
Density	1130 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	145 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	250 - 270	°C	-
Mold temperature	40 - 80	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Melt temperature	250 - 270	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Pellets

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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