

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