

Ultramid® B35WZ4
PA6

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	6 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	1800 / 500	MPa	ISO 527
Yield stress	45 / 30	MPa	ISO 527
Yield strain	4 / 20	%	ISO 527
Nominal strain at break	>50 / >50	%	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	90 / 120	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	20 / 15	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	1400 / -	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	50 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	60 / *	°C	ISO 75-1/-2

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.2 / -	-	IEC 62631-2-1
Dissipation Factor, 1MHz	200 / -	E-4	IEC 62631-2-1
Volume Resistivity	1E13 / -	Ohm*m	IEC 62631-3-1

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	8 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1070 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	260 - 280	°C	-
Mold temperature	70 - 80	°C	-

Characteristics

Processing

Other Extrusion

Special Characteristics

Heat aging stabilized

Delivery form

Pellets

Applications

Automotive