

Ultramid® B3WG7 High Speed bk23210
PA6-GF35

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	95 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	10500 / 6500	MPa	ISO 527
Stress at Break	180 / 115	MPa	ISO 527
Strain at Break	3.1 / 8	%	ISO 527
Impact Strength (Charpy), +23°C	92 / 100	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	73 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	13.8 / 17.8	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	9.2 / -	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	9700 / 6300	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)	208 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	221 / *	°C	ISO 75-1/-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	6.5 / *	%	Sim. to ISO 62
Humidity absorption	2.2 / *	%	Sim. to ISO 62
Bulk density	700	kg/m³	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	260 - 290	°C	-
Mold temperature	80 - 90	°C	-

Characteristics

Processing

Injection Molding

Special Characteristics

Heat aging stabilized

Delivery form

Pellets, Black

Applications

Automotive