

Ultramid® B3ZG7 CR BK23282
PA6-GF35

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	15 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	10100 / 5900	MPa	ISO 527
Stress at Break	160 / 105	MPa	ISO 527
Strain at Break	4.6 / 10.6	%	ISO 527
Impact Strength (Charpy), +23°C	100 / 111	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	100 / 98	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	17 / 30	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	12 / 13	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	9000 / 5360	MPa	ISO 178
Flexural strength	250 / 144	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)	205 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	5.49 / *	%	Sim. to ISO 62
Humidity absorption	1.75 / *	%	Sim. to ISO 62
Density	1390 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	270 - 290	°C	-
Mold temperature	80 - 90	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	270 - 290	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Pellets

Special Characteristics

Impact modified