

Ultramid® B3ZG6 R01
PA6-GF30

BASF

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	9000 / 5000	MPa	ISO 527
Stress at Break	160 / 110	MPa	ISO 527
Strain at Break	4 / 10	%	ISO 527
Impact Strength (Charpy), +23°C	100 / 105	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy), -30°C	100 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	20 / 30	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	12 / -	kJ/m ²	ISO 179/1eA
Flexural Modulus (23°C)	7900 / 4000	MPa	ISO 178

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

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.6 / 6	-	IEC 62631-2-1
Dissipation Factor, 1MHz	200 / 2000	E-4	IEC 62631-2-1
Volume Resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Comparative tracking index	550 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	6.5 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1340 / -	kg/m ³	ISO 1183
Bulk density	700	kg/m ³	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	260 - 290	°C	-
Mold temperature	80 - 100	°C	-

Characteristics

Processing
Injection Molding

Special Characteristics
Impact modified

Delivery form
Pellets

Applications
Automotive