

Ultramid® A3Z3 R01
PA66

BASF

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2000	MPa	ISO 527
Yield stress	55	MPa	ISO 527
Yield strain	4.5	%	ISO 527
Nominal strain at break	30	%	ISO 527
Impact Strength (Charpy), +23°C	no break	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	no break	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	75	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	25	kJ/m²	ISO 179/1eA

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	260	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	60	°C	ISO 75-1/-2

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.1	-	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	Value	Unit	Test Standard
ISO Data			
Water Absorption	7.5	%	Sim. to ISO 62
Density	1080	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	280 - 300	°C	-
Mold temperature	70 - 80	°C	-

Characteristics

Processing

Injection Molding

Special Characteristics

Impact modified

Delivery form

Pellets

Applications

Automotive

Disclaimer

Liability Exclusion

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