

**Ultramid® A3X3G5**  
**PA66-GF25**

BASF

Rheological properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	40 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-

Mechanical Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	8500 / 6000	MPa	ISO 527
Stress at Break	140 / 100	MPa	ISO 527
Strain at Break	3 / 4.5	%	ISO 527
Tensile Creep Modulus, 1000h	* / 3500	MPa	ISO 899-1
Impact Strength (Charpy), +23°C	70 / 75	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	65 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	13 / 18	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	7100 / -	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	11 / 17	kJ/m²	ISO 180/1A

Thermal Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Melting Temperature (10°C/min)	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	250 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	250 / *	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	30 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	70 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	V-1 / *	class	UL 94
Thickness tested	1.6 / *	mm	-

Electrical Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Relative permittivity, 1MHz	3.7 / 5	-	IEC 62631-2-1
Dissipation Factor, 1MHz	200 / 1000	E-4	IEC 62631-2-1
Volume Resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface Resistivity	* / 1E10	Ohm	IEC 62631-3-2
Electric Strength	33 / 30	kV/mm	IEC 60243-1
Comparative tracking index	575 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Water Absorption	6 / *	%	Sim. to ISO 62
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1340 / -	kg/m³	ISO 1183

Material Specific Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Viscosity number	140 / *	cm³/g	ISO 307, 1157, 1628

**Characteristics**

**Processing**

Injection Molding, Other Extrusion

**Special Characteristics**

Flame retardant

**Delivery form**

Pellets

**Applications**

Automotive

**Disclaimer**

**Liability Exclusion**

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