

**Ultramid® A3HG2**  
**PA66-GF10**

BASF

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.008	mm/mm	ASTM D 955
Density, 73°F	1200	kg/m³	ASTM D 792
Water Absorption, Equilibrium	7	%	ASTM D 570

Rheological properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	80 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-

Mechanical Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	4600 / 2600	MPa	ISO 527
Stress at Break	100 / 60	MPa	ISO 527
Strain at Break	2.8 / 12	%	ISO 527
Impact Strength (Charpy), +23°C	30 / 92	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	7 / 9	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	4600 / -	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	- / 7	kJ/m²	ISO 180/1A
<b>ASTM Data</b>			
Tensile Strength at Break	100 / -	MPa	ASTM D 638
Elongation at Break	3 / -	%	ASTM D 638
Flexural Modulus	4480 / -	MPa	ASTM D 790
Notched Impact Strength (Izod), 1/8 in	53 / -	J/m	ASTM D 256

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)	210 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	HB / *	class	UL 94
Thickness tested	1.6 / *	mm	-
<b>ASTM Data</b>			
DTUL @ 264 psi	210	°C	ASTM D 648
Melting Temperature	260	°C	ASTM D 3418

Electrical Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Relative permittivity, 1MHz	3.5 / 5.5	-	IEC 62631-2-1
Dissipation Factor, 1MHz	140 / 1600	E-4	IEC 62631-2-1
Volume Resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Surface Resistivity	* / 1E10	Ohm	IEC 62631-3-2
Comparative tracking index	550 / -	-	IEC 60112
<b>ASTM Data</b>			
Volume Resistivity	1E13 / -	Ohm*cm	ASTM D 257

Other Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Water Absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1200 / -	kg/m³	ISO 1183

Material Specific Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Viscosity number	148 / *	cm³/g	ISO 307, 1157, 1628

**Characteristics**

**Processing**

Injection Molding, Other Extrusion

**Applications**

Automotive, Electrical and Electronical

**Delivery form**

Pellets

**Disclaimer**

**Liability Exclusion**

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