

Ultramid® Exp.A3U44G6 DC
PA66-GF30

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	10 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	11000 / 10900	MPa	ISO 527
Stress at Break	155 / 120	MPa	ISO 527
Strain at Break	3 / 3.2	%	ISO 527
Impact Strength (Charpy), +23°C	70 / 65	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	70 / 60	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	8.5 / 9	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	10500 / 9500	MPa	ISO 178
Flexural strength	240 / 195	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	235 / *	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	23 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	67 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	V-0 / *	class	UL 94
Thickness tested	0.4 / *	mm	-
UL recognition	yes / *	-	-
Glow Wire (GWFI, Flammability Index)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	0.8	mm	-

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Dissipation Factor, 1MHz	115 / 230	E-4	IEC 62631-2-1
Volume Resistivity	1E12 / 1E11	Ohm*m	IEC 62631-3-1
Surface Resistivity	* / 1E15	Ohm	IEC 62631-3-2
Electric Strength	39 / 39	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	5.3 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1430 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	280 - 30	°C	-
Mold temperature	80 - 90	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Melt temperature	280 - 300	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Features

Color Stability

Ultramid® Exp.A3U44G6 DC
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BASF

Delivery form

Pellets

Applications

Electrical and Electronical

Special Characteristics

Flame retardant, Halogen-free