

Ultramid® Advanced N3U42G6
PPA-GF30

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	30 / *	cm³/10min	ISO 1133
Temperature	325 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	10500 / 10500	MPa	ISO 527
Stress at Break	140 / 130	MPa	ISO 527
Strain at Break	2.2 / 2.2	%	ISO 527
Impact Strength (Charpy), +23°C	60 / 50	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	60 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	7 / 7	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	10500 / 10500	MPa	ISO 178
Flexural strength	220 / 210	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	300 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	265 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	V-0 / *	class	UL 94
Thickness tested	1.5 / *	mm	-
UL recognition	yes / *	-	-
Burning Behav. at thickness h	V-0 / *	class	UL 94
Thickness tested	0.4 / *	mm	-
UL recognition	yes / *	-	-
Burning Behav. 5V at Thickness h	5VA / *	class	IEC 60695-11-20
Thickness tested	1.5 / *	mm	-
Yellow Card available	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			
Electric Strength	45 / -	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1440 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	100 / *	cm³/g	ISO 307, 1157, 1628

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	330	°C	ISO 294
Injection Molding, mold temperature	140	°C	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	310 - 340	°C	-
Mold temperature	100 - 160	°C	-

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Processing Recommendation Extrusion	Value	Unit	Test Standard
Melt temperature	310 - 340	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Special Characteristics

Flame retardant, Halogen-free

Delivery form

Pellets

Chemical Resistance

General Chemical Resistance