

Ultramid® Advanced Exp. T1000HG6 un
PPA-GF30

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	12200 / 12000	MPa	ISO 527
Stress at Break	210 / 210	MPa	ISO 527
Strain at Break	2 / 2	%	ISO 527
Impact Strength (Charpy), +23°C	60 / 60	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	60 / 55	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	8 / 7.5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	8 / 7.3	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	11000 / 11000	MPa	ISO 178
Flexural strength	290 / 290	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	320 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	280 / *	°C	ISO 75-1/-2
Burning Behav. at thickness h	HB / *	class	UL 94
Thickness tested	0.8 / *	mm	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	20.3	mm	-

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Volume Resistivity	1E14 / 1E14	Ohm*m	IEC 62631-3-1
Surface Resistivity	* / >1E15	Ohm	IEC 62631-3-2
Electric Strength	43 / -	kV/mm	IEC 60243-1

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	120 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	330 - 350	°C	-
Mold temperature	140 - 160	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Melt temperature	330 - 350	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Special Characteristics

Heat aging stabilized

Delivery form

Pellets, Natural Color

Chemical Resistance

General Chemical Resistance