

Ultramid® Advanced T1000HG10 LS BK 23593
PPA-GF50

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.5 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	19000 / 19000	MPa	ISO 527
Stress at Break	260 / 250	MPa	ISO 527
Strain at Break	2 / 2	%	ISO 527
Impact Strength (Charpy), +23°C	80 / 75	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	75 / 75	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	12 / 10	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	12 / 11	kJ/m²	ISO 179/1eA

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

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Volume Resistivity	1E16 / 1E15	Ohm*m	IEC 62631-3-1
Surface Resistivity	* / >1E15	Ohm	IEC 62631-3-2
Electric Strength	40 / -	kV/mm	IEC 60243-1

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	2.9 / *	%	Sim. to ISO 62
Humidity absorption	1.3 / *	%	Sim. to ISO 62
Density	1640 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	95 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	345 - 360	°C	-
Mold temperature	140 - 160	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Melt temperature	345 - 360	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Features

Melt Strength

Delivery form

Pellets, Black

Chemical Resistance

General Chemical Resistance

Special Characteristics

Heat aging stabilized