

Ultramid® Advanced T2300HG10 LS sw23346
PPA-GF50

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	4 / *	cm³/10min	ISO 1133
Temperature	320 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	16500 / 16500	MPa	ISO 527
Stress at Break	235 / 193	MPa	ISO 527
Strain at Break	2.3 / 2.2	%	ISO 527
Impact Strength (Charpy), +23°C	90 / 80	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	85 / 80	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	10.8 / 10	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	10.2 / 8.8	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	15500 / 15900	MPa	ISO 178
Flexural strength	360 / 315	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	310 / *	°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	3.2 / *	mm	-

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Humidity absorption	0.92 / *	%	Sim. to ISO 62
Density	1610 / -	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	320 - 340	°C	-
Mold temperature	120 - 140	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Melt temperature	320 - 340	°C	-

Characteristics

Processing	Special Characteristics
Injection Molding, Other Extrusion	Heat aging stabilized
Delivery form	Chemical Resistance
Pellets, Black	General Chemical Resistance