

Ultrad® Advanced T2300HG7 LS sw23346
PPA-GF35

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	6 / *	cm³/10min	ISO 1133
Temperature	320 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.5 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	12000 / 11600	MPa	ISO 527
Stress at Break	200 / 170	MPa	ISO 527
Strain at Break	2.6 / 2.8	%	ISO 527
Impact Strength (Charpy), +23°C	90 / 80	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	70 / 65	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	9.3 / 9.6	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	7.9 / 7.9	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	10800 / 11000	MPa	ISO 178
Flexural strength	300 / 260	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
Coeff. of Linear Therm. Expansion, parallel	21 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	72 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	HB / *	class	UL 94
Thickness tested	0.4 / *	mm	-

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Dissipation Factor, 1MHz	150 / 270	E-4	IEC 62631-2-1
Volume Resistivity	1E15 / 1E15	Ohm*m	IEC 62631-3-1
Surface Resistivity	* / >1E15	Ohm	IEC 62631-3-2
Comparative tracking index	600 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Humidity absorption	1.22 / *	%	Sim. to ISO 62
Density	1440 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	130 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	320 - 340	°C	-
Mold temperature	120 - 160	°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