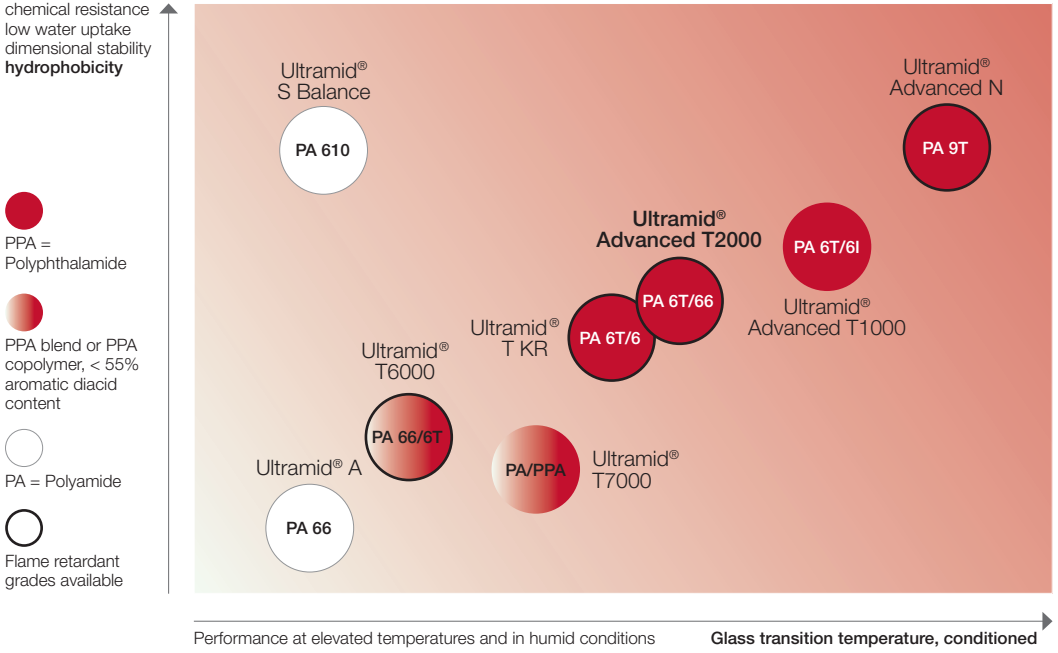
Connecting strengths

Plug into the PPA
Ultramid® Advanced T2000

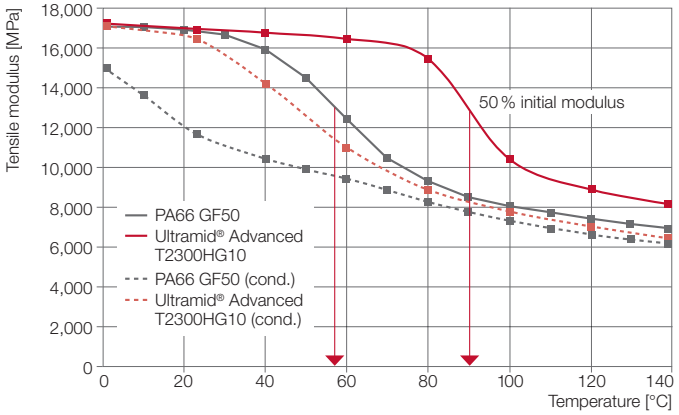
Ultramid® Advanced T2000 is based on PA 6T/66 and also available with flame retardant additives. It combines excellent mechanical with dielectric strength at high temperatures - a combination which is particularly needed for connectors in the electrical and electronics (E&E) industry.

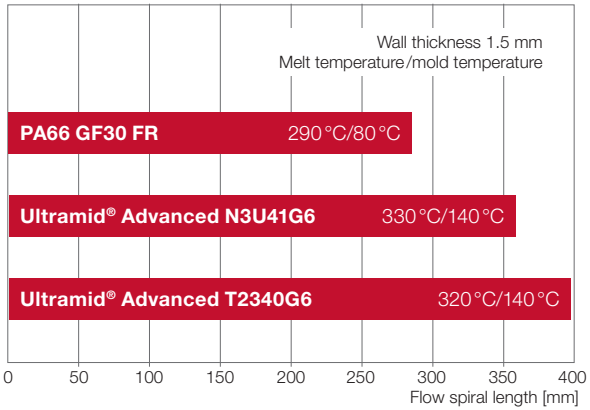


ULTRAMID® ADV

Ultramid® Advanced T2340G6 LS black

- V-0 UL rating at 0.4 mm
- Highest flowabiltity:
  Flow spiral length of 400 mm at 320 °C
  T_{melt} and 140 °C T_{mold}





Excellent flame retardant properties and good surface

- Due to high T_{melt} excellent for SMT
- High HDT (> 280 °C)
- FR grades, halogen-free with V-0 down to 0.4 mm
- For E&E applications with demanding properties

Stable mechanical properties: Up to 30 °C higher temperatures than PA66

- Constant mechanical properties over a broad temperature range
- Extended temperature range compared to PA66
- High stiffness and strength
- Low water uptake with little influence on properties
- Dimensioning of parts easier

Excellent flowability

- Higher flowability than PA66
- Thin-wall parts and long flow lengths feasible

ANCED T2000

Mechanical properties

Ultramid® Advanced	Tensile modulus at 23 °C ISO 527-1/-2 [MPa]	Stress at break at 23 °C ISO 527-1/-2 [MPa]	Strain at break at 23 °C ISO 527-1/-2 [%]	Charpy unnotched impact strength at 23 °C ISO 179/1eU [kJ/m²]	Charpy notched impact strength at 23 °C ISO 179/1eA [kJ/m²]
T2300EG6	10,200 / cond. 10,200	188 / cond. 157	2.8 / cond. 3.2	86 / cond. 77	8.7 / cond. 9
T2300HG10	16,500 / cond. 16,500	235 / cond. 193	2.3 / cond. 2.2	90 / cond. 80	10.8 / cond. 10
T2300ZG3	5,300 / cond. 5,000	115 / cond. 85	3.8 / cond. 4.1	75 / cond. 65	13 / cond. 13
T2340G6	10,500 / cond. 10,500	150 / cond. 130	2.5 / cond. 2.5	60 / cond. 55	7 / cond. 7

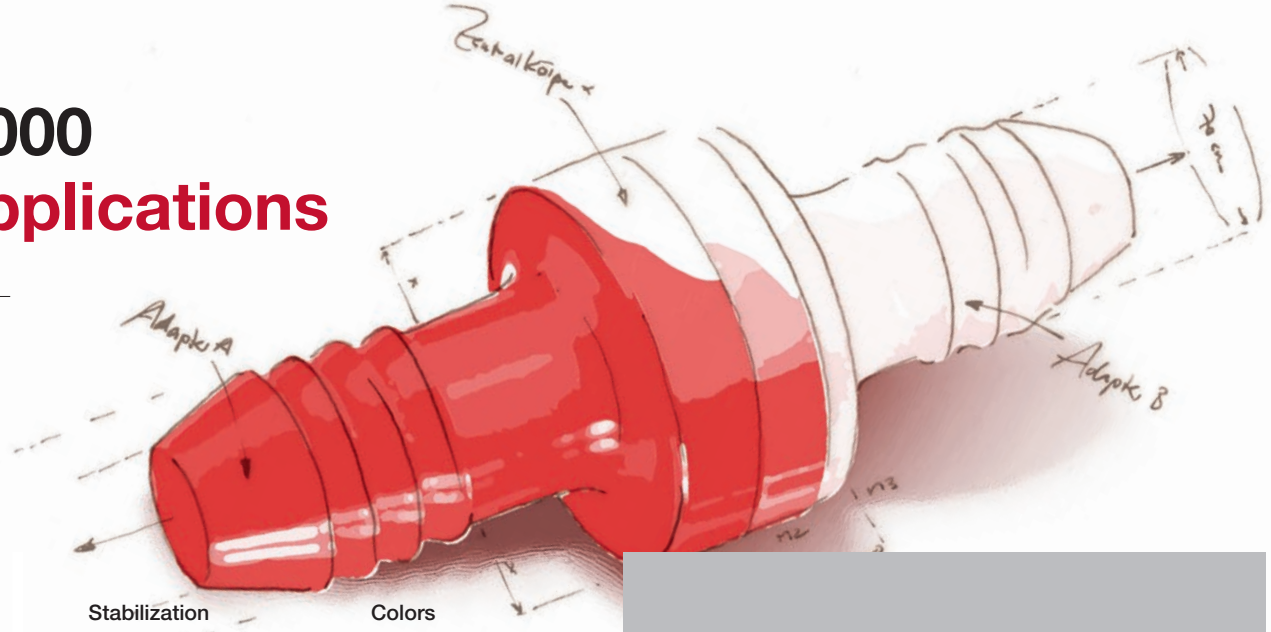
E&E properties

Ultramid® Advanced	UL 94 results (thickness) UL94, IEC 60695 Class [mm]	GWFI (thickness) IEC 60695-2-12 [°C (mm)]	CTI Solution A IEC 60112
	Flammability		Electrical properties
T2300EG6	HB (0.4)	-	600
T2300HG10	HB (0.4)	-	600
T2300ZG3	HB (0.4)	-	600
T2340G6	V-0 5VA (1.5)	960 (1.5)	600

Processing

Ultramid® Advanced	Melt temperature injection molding / extrusion [°C]	Mold temperature injection molding [°C]
T2300EG6	320-340	120-160
T2300HG10	320-340	120-140
T2300ZG3	320-340	120-160
T2340G6	310-330	140-160

Ultramid® Advanced T2000
Product portfolio and applications



	Ultramid® Advanced	Reinforcement	Stabilization	Colors
Glass-fiber reinforced	T2300EG6	30 % GF	standard (E)	LS bk, un
	T2300HG6	30 % GF	standard (H)	LS bk
	T2300HG7	35 % GF	standard (H)	LS bk
	T2300EG8	40 % GF	standard (E)	Un
	T2300EG10	50 % GF	standard (E)	Un
	T2300HG10	50 % GF	standard (H)	LS bk
Flame retardant	T2340G6	30 % GF	standard, FR	LS bk, un, colors*
	T2340G7	35 % GF	standard, FR	LS bk, grey
Impact modified	T2300ZG3	15 % GF	standard (H)	LS bk, un

LS: laser sensitive
* Besides pre-colored compounds in grey, orange or other colors, UL® certified masterbatches available for self-coloring.

The right material for the right part: choose the suitable material for your application!
PPA Product Selector on www.ppa.basf.com

For demanding applications

- Connectors (e.g., auto connectors)
- Miniature circuit breakers
- Power electronics
- Electric powertrain
- Motors & actuators

For further questions please contact the Ultra-Infopoint: +49 621 60-78780 / ultraplaste.infopoint@basf.com

www.ultramid-advanced-t2000.basf.com

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