

#### Product description

Polyphthalamide, light colorable, with a high melting point, halogen-free flame-retardant, low water absorption, good mechanical and dielectrical properties at elevated temperatures, soldering bath resistant.

As stated in our Letter of Equivalence, products manufactured according to mass balance approach with allocated resources based on biomass (BMBCert™) and/or pyrolysis oil (CCycled™) feature the same properties as the corresponding product based on fossil resources.

#### Markets & applications

Automotive: Automotive electrics & electronics (E&E), sensors, fuel cell, e-mobility  
E&E: Connectors, SMT (surface mount technology) applications, energy distribution  
Consumer goods: Home appliances, consumer electronics

#### Physical form and storage

The product is supplied in the form of granules with a bulk density of approx. 0.7 g/cm<sup>3</sup>. Standard packs are bag and bulk container (octagonal IBC=intermediate bulk container made from corrugated board with a liner bag). Other packaging materials and shipping in road or rail silo wagons are possible by agreement. The containers should only be opened immediately before processing or drying. To ensure that the delivered product absorbs as little moisture as possible, the containers should be stored in dry rooms and always carefully closed again after partial quantities have been withdrawn. In principle, the product can be stored for a long period of time. Containers stored in cold rooms should be equalized to ambient temperature before opening in order to avoid condensation on the granules. Regardless of the storage conditions, the product should be pre-dried according to our recommendations and the machine should preferably be loaded using a closed conveyor system.

#### Product safety

In case processing is done under conditions as recommended (cf. processing data sheet) melts are thermally stable and do not generate hazards by molecular degradation or the evolution of gases and vapors. Like all thermoplastic polymers the product decomposes on exposure to excessive thermal load, e.g. when it is overheated or as a result of cleaning by burning off. Further information is available from the safety data sheet.

#### Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. In order to check the availability of products please contact us or our sales agency.

## Preliminary Datasheet <sup>3)</sup>

Typical values for uncoloured product at 23 °C <sup>1)</sup>	Test method	Unit	Values <sup>2)</sup>
<b>Properties</b>			
Polymer abbreviation	-	-	<b>PA6T/66 GF35 FR(40)</b>
Density	ISO 1183	kg/m <sup>3</sup>	<b>1500</b>
Viscosity number (0.5% in 96% H <sub>2</sub> SO <sub>4</sub> )	ISO 307, 1157, 1628	cm <sup>3</sup> /g	<b>115</b>
<b>Processing</b>			
Melting temperature, DSC	ISO 11357-1/-3	°C	<b>310</b>
MVR 325 °C/5 kg	ISO 1133	cm <sup>3</sup> /10min	<b>50</b>
Melt temperature, injection moulding/extrusion	-	°C	<b>320 - 340</b>
Mould temperature, injection moulding	-	°C	<b>140 - 160</b>
Molding shrinkage (parallel)	ISO 294-4	%	<b>0.40</b>
Molding shrinkage (normal)	ISO 294-4	%	<b>1.10</b>
<b>Flammability (UL-yellow card see attachment)</b>			
GWFI (thickness)	IEC 60695-2-12	°C (mm)	<b>960 (1.5)</b>
UL 94 rating (thickness)	UL-94, IEC 60695	class (mm)	<b>V-0 (0.4)</b>
Yellow Card available (1)	UL-94, IEC 60695	-	<b>yes</b>
UL 94 rating (thickness)	IEC 60695-11-20	class (mm)	<b>5VA (1.5)</b>
Yellow Card available (5V)	-	-	<b>yes</b>
<b>Mechanical properties</b>			
Tensile modulus	ISO 527-1/-2	MPa	<b>12000 / -</b>
Stress at break	ISO 527-1/-2	MPa	<b>130 / -</b>
Strain at break	ISO 527-1/-2	%	<b>1.8 / -</b>
Charpy unnotched impact strength, 23°C	ISO 179/1eU	kJ/m <sup>2</sup>	<b>35 / -</b>
Charpy unnotched impact strength, -30°C	ISO 179/1eU	kJ/m <sup>2</sup>	<b>35 / -</b>
Charpy notched impact strength, 23°C	ISO 179/1eA	kJ/m <sup>2</sup>	<b>4 / -</b>
Charpy notched impact strength, -30°C	ISO 179/1eA	kJ/m <sup>2</sup>	<b>4 / -</b>

### Footnotes

1) If product name or properties don't state otherwise.

2) The asterisk symbol "\*" signifies inapplicable properties.

3) The typical values of preliminary datasheets are not statistically firm.

BASF SE

67056 Ludwigshafen, Germany

## UL - Yellow Card

Component - Plastics

E41871

BASF SE

Performance Materials Europe, PMD/EX - H201, Ludwigshafen 67056 DE

Advanced T2340G7(t), Advanced T2340G7 CCYD(t), Advanced T2340G7 BMB(t)

Polyamide 6T/66 (PA6T/66) "Ultramid", furnished as pellets

Color	Min. Thk (mm)	Flame Class	HWI	HAI	RTI Elec (°C)	RTI Imp (°C)	RTI Str (°C)
ALL	0.40	V-0	1	0	140	90	105
	0.75	V-0	1	0	150	95	110
	1.5	V-0, 5VA	0	0	150	95	110
	3.0	V-0, 5VA	0	0	150	105	120

Comparative Tracking Index (CTI): 0

Inclined Plane Tracking (IPT) kV: 1.5

Dielectric Strength (kV/mm): 40

Volume Resistivity (10<sup>x</sup>ohm-cm): -

High-Voltage Arc Tracking Rate (HVTR): -

Surface Resistivity (10<sup>x</sup>ohms/square): -

Dimensional Change (%): -

High Volt, Low Current Arc Resis (D495): -

(t) - May be followed by the letters LS and a color code indicating laser sensitive coloring.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

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### IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10, IEC 60695-11-20	Class (color)	0.40	V-0 (ALL)
			0.75	V-0 (ALL)
			1.5	V-0, 5VA (ALL)
			3.0	V-0, 5VA (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	°C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC AC Dielectric Strength (AC DS)	IEC 60243-1	kV/mm	-	-
IEC DC Dielectric Strength (DC DS)	IEC 60243-2	kV/mm	-	-
IEC Volume Resistivity (VR)	IEC 62631-3-1	10x ohm-m	-	-
IEC Surface Resistivity (SR)	IEC 62631-3-2	10x ohms	-	-
IEC Inclined Plane Tracking (IPT)	IEC 60587	kV	-	-
IEC Ball Pressure	IEC 60695-10-2	°C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	°C	-	-

BASF SE

67056 Ludwigshafen, Germany

# Ultramid® Advanced T2340G7 GR



We create chemistry

## UL - Yellow Card

ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m <sup>2</sup>	-	-
ISO Izod Impact	ISO 180	kJ/m <sup>2</sup>	-	-
ISO Charpy Impact	ISO 179-1	kJ/m <sup>2</sup>	-	-