Product Information

Ultramid[®]

C 548B BLACK

PA6



Product description

Ultramid® C 548B Black is an unreinforced polyamide 6, high viscosity, for extrusion blow-moulding. This grade offers a good processing behaviour, high impact resistance even at low temperature and high barrier properties especially to fluids such as fuels and oils, as well as a high toughness.

Extrusion Notes

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment. Blow Molding Mold Temperature: 40 to 60°C Blow Molding Head Temperature: 220 to 240°C

Disclaimer

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and it is in no way binding. This information must on no account be used as a substitutive for necessary prior tests which alone can ensure that a product is suitable for a given use. ANY WARRANTY OF PRODUCT PERFORMANCE, MERCHANDABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY EXCLUDED. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document, and BASF SE is at their disposal to supply any additional information.

Safety Information

Detailed information regarding safety are available on the safety data sheet (MSDS). MSDS is sent with the first material order or available by contacting our customer services

Regulations Compliance

This product is not intended to be used for the following regulated market: food contact, drinking water, toys, cosmetics or medical devices.

This grade complies with RoHS Directive 2011/65/EU, 2015/863 and local regulations as amended.

Grades produced or imported in Europe comply with REACH directive 1907/2006/EC as amended.

Customer Services

Our customer services are not only concerned with manufacturing and supply of Engineering Plastics products. We are available to assist our customers in finding technical solutions that meet their requirements. Specific support is in particular offered on:

- Material selection
- Material testing
 Parts design advice, training for design engineers
- Part testing
- Design simulation
- Processing through different technologies
- Assembly and post-processing technology expertise
- Parts optimization through Computer Aided Design





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Γypical values for uncoloured product at 23 °C ¹⁾	Test method	Unit	Values ²⁾
General Properties			
Asia Pacific	-	-	+
South and Central America	-	-	+
Near East/Africa	-	-	+
Processing: Injection moulding (M), Extrusion (E), Blow moulding (B)	-	-	E,B
Colour; black (bk), uncoloured (un), coloured (co), transparent (tr) Pellets	-		bk +
-ellets		-	+
Physical			
Vater absorption, 24 h in water, 23 °C	ISO 62	%	1.2
Moisture absorption, equilibrium 23°C/50% r.h	similar to ISO 62	%	2.60
Density	ISO 1183	kg/m³	1070 / -
Mechanical properties			dry / cond.
ensile modulus	ISO 527-1/-2	MPa	1900 / 500
/ield stress, 50 mm/min	ISO 527-1/-2	MPa	48 / 40
Stress at break	ISO 527-1/-2	MPa	40 / 38
Strain at break	ISO 527-1/-2	%	60 / > 100
ensile elongation at break, 2 in/min (ASTM)	ASTM D 638	%	150 / -
Flexural modulus	ISO 178	MPa	1750 / 850
Flexural strength	ISO 178	MPa	70 / 45
Charpy notched impact strength ISO 179/1eA (-30°C)	ISO 179/1eA	kJ/m²	16/-
Charpy notched impact strength ISO 179/1eA (23°C)	ISO 179/1eA	kJ/m²	100 / N
Charpy impact strength ISO 179-1eU (23°C)	ISO 179/1eU	kJ/m ²	N / N
zod notched impact strength ISO 180/A (23°C)	ISO 180/A	kJ/m²	90 / -
Thermal properties			
HDT B (0.45 MPa)	ISO 75-1/-2	°C	80
HDT A (1.80 MPa)	ISO 75-1/-2	°C	55
Melting temperature, DSC (10°C/min)	ISO 11357-1/-3	°C	222
Electrical properties			dry / cond
Electrical properties Surface resistivity	IEC 62631-3-2	Ohm	dry / cond. 1E15 / 1E12
/olume resistivity	IEC 62631-3-1	Ohm*m	1E13 / 1E12
Electric strength (d = 2.0 mm)	IEC 60243-1	kV/mm	-/17
Relative permittivity (100Hz)	IEC 62631-2-1		3.7/4
Dissipation factor (100 Hz)	IEC 62631-2-1	F-4	0.02 / 0.12
Flammability		alore	
Burning Behav. at 1.6 mm nom. thickn.	IEC 60695-11-10	class	HB
Glow Wire Flammability Index (1.6 mm)	IEC 60695-2-12	°C	650
Extrusion Notes			
Pre/Post-processing, max. allowed water content	-	%	0.8
xtrusion cylinder temperature 1		°C	210 - 230
xtrusion cylinder temperature 2		°C	220 - 240
Extrusion, Adapter temperature		°C	230
Extrusion, Die temperature		°C	225



