

Product description

Polyamid 66, UL94 V-0 flame retarded, 25% of glass fiber for injection molding. Ultramid® A 30H2 V25 is used in all sectors of industry, offering high flowability and low gas emission during injection molding. This grade is widely used for

- Automotiv parts: Ash tray
- Electric parts: Connector, Coil Bobbin, Magnetic Switch, Socket, Battery Insulator

This product is available in natural, black, grey, orange colors and in colors on request.

Injection 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, dew Point mini -20°C. Recommended time 2-4h.

Injection Advice:

- All reinforced, flame retardant compounds generate some level of abrasion/corrosion to the steel processing equipment. These issues may be magnified by using incorrect processing conditions (temperatures, residence time, moisture level ...) during the moulding process. Therefore, BASF SE recommends you adhere to the processing conditions detailed in this technical data sheet. For equipment that comes into contact with molten flame retardant compounds, BASF SE advises you to use a steel with high chromium and high carbon content (having a minimum concentration of 16% Chromium) to prevent corrosion and abrasion. For the correct reference of steel associated to flame retardant compounds' processing, please refer to your equipment manufacturers. In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered.
- The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design.

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 substitute for necessary prior tests which alone can ensure that a product is suitable for a given use. ANY WARRANTY OF PRODUCT PERFORMANCE, MERCHANTABILITY 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

Product Information

Typical values for uncoloured product at 23 °C ¹⁾	Test method	Unit	Values ²⁾
General Properties			
Asia Pacific	-	-	+
Near East/Africa	-	-	+
Processing: Injection moulding (M), Extrusion (E), Blow moulding (B)	-	-	M
Colour: black (bk), uncoloured (un), coloured (co), transparent (tr)	-	-	bk,un,co
Pellets	-	-	+
Physical			
Molding shrinkage (parallel)	ISO 294-4	%	0.30
Molding shrinkage (normal)	ISO 294-4	%	0.90
Density	ISO 1183	kg/m ³	1540 / -
Mechanical properties			
			dry / cond.
Tensile Strength at Break (ASTM)	ASTM D 638	MPa	155 / -
Tensile elongation at break, 2 in/min (ASTM)	ASTM D 638	%	2.5 / -
Flexural modulus (ASTM)	ASTM D 790	MPa	10000 / -
Flexural strength (ASTM)	ASTM D 790	MPa	230 / -
Izod notched impact strength ASTM D 256 (23 °C)	ASTM D 256	J/m	80 / -
Rockwell hardness	ASTM D785	class	122 / -
Thermal properties			
HDT A (1.82 MPa), ASTM	ASTM D 648	°C	233
Melting temperature, DSC (10°C/min)	ISO 11357-1/-3	°C	262
Flammability			
Burning Behav. at 1.6 mm nom. thickn.	IEC 60695-11-10	class	V-0
Burning Behav. at thickness 0.8 mm	IEC 60695-11-10	class	V-0
Burning Behav. at thickness 3.2 mm	UL-94, IEC 60695	class	V-0
Glow Wire Flammability Index (0.8 mm)	IEC 60695-2-12	°C	960
Glow Wire Flammability Index (3.2 mm)	IEC 60695-2-12	°C	960
Glow Wire Ignition Temperature (0.8 mm)	IEC 60695-2-13	°C	775
Glow Wire Ignition Temperature (3.2 mm)	IEC 60695-2-13	°C	775
Injection			
Pre/Post-processing, Pre-drying, Temperature	-	°C	80
Pre/Post-processing, max. allowed water content	-	%	0.2
Injection molding cylinder temperature 1 (feed zone)	-	°C	260 - 265
Injection molding cylinder temperature 2 (compression)	-	°C	265 - 275
Injection molding cylinder temperature 3 (metering-zone, head room of screw)	-	°C	275 - 285
injection molding, Mold temperature, range	ISO 294	°C	80 - 100

Footnotes

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

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

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