

#### Product description

Ultramid® 66 H2 G/35-V0KB1 BK3324 is a 35% glass reinforced, heat stabilized, pigmented black injection molding PA66. It's a self-extinguishing V-0, based on red phosphorous. It has good flowability and mechanical properties. It offers high rigidity and excellent electrical properties.

#### Injection Molding

PROCESSING  
injection molding, Melt temperature, range 285 - 300  
injection molding, Mold temperature, range 80 - 90

#### Material Handling

Max. Water content: 0.05%

Special handling and safety precautions must be used when processing this grade of material. Please contact your BASF Technical Service Representative for details. Product is supplied in moisture barrier packaging. However, further drying is typically required. A dehumidifying or desiccant dryer operating at 80°C (176°F) is recommended. Drying time is dependent on moisture level, however 2-4 hours is generally sufficient. Further information concerning safe handling procedures can be obtained from the Safety Data Sheet. Alternatively, please contact your BASF Technical Service representative.

#### 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.

## Product Information

Typical values for uncoloured product at 23 °C <sup>1)</sup>	Test method	Unit	Values <sup>2)</sup>
<b>Properties</b>			<b>dry / cond.</b>
Polymer abbreviation	-	-	<b>PA66-GF35</b>
Filler content: Glass fiber (GF), glass balls (GB), Mineral (M)	-	%	<b>GF35</b>
Density	ISO 1183	kg/m <sup>3</sup>	<b>1450 / -</b>
<b>Processing</b>			<b>dry / cond.</b>
Melt temperature, Injection moulding/Extrusion	-	°C	<b>285 - 300</b>
Mould temperature, Injection moulding	-	°C	<b>80 - 90</b>
<b>Flammability</b>			
Burning Behav. at 1.5 mm nom. thickn.	IEC 60695-11-10	class	<b>V-0</b>
Burning Behav. at thickness d = 0.81 mm	IEC 60695-11-10	class	<b>HB</b>
UL 94 rating at 3 mm thickness	UL-94, IEC 60695	class	<b>V-0</b>
Burning Behav. 5V at thickness d = 3 mm	IEC 60695-11-20	class	<b>5VA</b>
RTI, electrical, d = 0.8 mm	UL-746B	°C	<b>130</b>
RTI, electrical, d = 1.6 mm	UL-746B	°C	<b>130</b>
RTI, electrical, d = 3.2 mm	UL-746B	°C	<b>130</b>
RTI, mechanical, under impact stress, d = 0.8 mm	UL-746B	°C	<b>115</b>
RTI, mechanical, under impact stress, d = 1.6 mm	UL-746B	°C	<b>115</b>
RTI, mechanical, under impact stress, d = 3.2 mm	UL-746B	°C	<b>115</b>
RTI, mechanical, without impact stress, d = 0.8 mm	UL-746B	°C	<b>140</b>
RTI, mechanical, without impact stress, d = 1.6 mm	UL-746B	°C	<b>140</b>
RTI, mechanical, without impact stress, d = 3.2 mm	UL-746B	°C	<b>140</b>
<b>Mechanical properties</b>			<b>dry / cond.</b>
Tensile modulus	ISO 527-1/-2	MPa	<b>11400 / -</b>
Yield stress, 50 mm/min	ISO 527-1/-2	MPa	<b>176 / -</b>
Yield strain, 50 mm/min	ISO 527-1/-2	%	<b>2.5 / -</b>
Flexural modulus	ISO 178	MPa	<b>10300 / -</b>
Charpy notched impact strength (23°C)	ISO 179/1eA	kJ/m <sup>2</sup>	<b>10 / -</b>
Charpy notched impact strength (-40°C)	ISO 179/1eA	kJ/m <sup>2</sup>	<b>9 / -</b>
Izod notched impact strength (23°C)	ISO 180/A	kJ/m <sup>2</sup>	<b>11 / -</b>
Izod notched impact strength (-40°C)	ISO 180/A	kJ/m <sup>2</sup>	<b>9 / -</b>
<b>Thermal properties</b>			<b>dry / cond.</b>
Melting temperature, DSC	ISO 11357-1/-3	°C	<b>258</b>
HDT A (1.80 MPa)	ISO 75-1/-2	°C	<b>236</b>

### Footnotes

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

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

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