

## Bergamid B70 G15 UV

Composition : Polycaprolactam (PA 6)

Glass fibre reinforced; UV-stabilised;

Delivery : Cylindrical pellets

04-Jul-12

<b>Mechanical properties</b>	<b>test conditions</b>	<b>DIN EN ISO</b>	<b>value dr./ cd.</b>
Yield stress	23 °C;50mm/min	527	-- / -- MPa
Yield strain	23 °C;50mm/min	527	-- / -- %
Stress at break	23 °C;5mm/min	527	130 / 75 MPa
Strain at break	23 °C;5mm/min	527	3,5 / 7 %
Tensile Modulus	23 °C;1mm/min	527	6000/3500 MPa
Charpy impact strength	+ 23 °C	179 / 1eU	55/95 kJ/m <sup>2</sup>
Charpy impact strength	- 30 °C	179 / 1eU	50/-- kJ/m <sup>2</sup>
Charpy notched impact strength	+ 23 °C	179 / 1eA	8/22 kJ/m <sup>2</sup>
Charpy notched impact strength	- 30 °C	179 / 1eA	8/-- kJ/m <sup>2</sup>
<b>Electrical properties</b>			
Volume resistivity		IEC 93	1E15 / 1E12 Ohm*cm
Surface resistivity		IEC 93	1E13 / 1E10 Ohm
Loss factor	1 MHz	IEC 250	250 / 2200 E-4
Comparative tracking index (C.T.I.)	test liquid A	IEC 112	500 step
Electric strength		IEC 243-1	80 / 70 kV/mm
Relative permittivity	1 MHz	IEC 250	3,7 / 7,0
<b>Thermal properties</b>			
Melting temperature	10 K/min	3146	223 °C
Temp. of deflection under load (HDT)	0,45 Mpa	75 - 1/2	220 °C
	1,8 Mpa	75 - 1/2	205 °C
max. using temperature	short time		190 °C
	continuous (GTP 50% tensile)	IEC 216	110 °C
<b>Flammability</b>			
Flammability	0,8 mm	UL 94	HB step
	1,6 mm	UL 94	HB step
Glow wire test	plate 3 mm	IEC 60695-2-12	-- °C
<b>Other properties</b>			
Density	+23 °C	53479	1,23 g/cm <sup>3</sup>
Ash content		3451	15 %
Melt volume-flow rate		1133	-- ml/10 min
K - value		96% H2SO4	74 - 78

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Note: dr = dry; cd = conditioned;

**Note:**

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