

Bergamid B70 GK30

Composition : Polycaprolactam (PA 6)
glas bead filled;

Delivery : Cylindrical pellets

11-Okt-02

Mechanical properties	test conditions	DIN EN ISO	value dr./ cd.
Yield stress	23°C;50mm/min	527	-- / -- MPa
Yield strain	23°C;50mm/min	527	-- / -- %
Stress at break	23°C;5mm/min	527	60 / 40 MPa
Strain at break	23°C;5mm/min	527	-- / -- %
Tensile Modulus	23°C;1mm/min	527	4800 / 1700 MPa
Charpy impact strength	+ 23°C	179 / 1eU	50 / 75 kJ/m ²
Charpy impact strength	- 30°C	179 / 1eU	40 / -- kJ/m ²
Charpy notched impact strength	+ 23°C	179 / 1eA	7 / 14 kJ/m ²
Charpy notched impact strength	- 30°C	179 / 1eA	6 / -- kJ/m ²
Electrical properties			
Volume resistivity		IEC 93	1E15 / 1E12 Ohm*cm
Surface resistivity		IEC 93	1E13 / 1E10 Ohm
Loss factor	1 MHz	IEC 250	220 / 2200 E-4
Comparative tracking index (C.T.I.)	test liquid A	IEC 112	500 step
Electric strength		IEC 243-1	-- kV/mm
Relative permittivity	1 MHz	IEC 250	3,8 / 6,2
Thermal properties			
Melting temperature	10 K/min	3146	223 °C
Temp. of deflection under load (HDT)	0,45 Mpa	75 - 1/2	180 °C
	1,8 Mpa	75 - 1/2	90 °C
max. using temperature	short time		180 °C
	continuous (GTP 50% tensile)	IEC 216	100 °C
Flammability			
Flammability	1,6 mm	UL 94	HB step
	3,0 mm	UL 94	HB step
Glow wire test	plate 3 mm	IEC 695-2-1	-- °C
Other properties			
Density	+23°C	53479	1,35 g/cm ³
Ash content		3451	30 %
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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