

Fa.

z.Hd.

FAX:

Bergamid B65

Composition Polycaprolactam (PA 6)

Delivery : Cylindrical pellets

27-Jul-04

Mechanical properties	test conditions	DIN EN ISO	value dr./ cd.
Yield stress	23°C;50mm/min	527	70 / 45 MPa
Yield strain	23°C;50mm/min	527	3,5 / 18 %
Stress at break	23°C;5mm/min	527	-- / -- MPa
Strain at break	23°C;5mm/min	527	>10 / > 20 %
Tensile Modulus	23°C;1mm/min	527	2800 / 1000 MPa
Charpy impact strength	+ 23°C	179 / 1eU	KB / KB kJ/m ²
Charpy impact strength	- 30°C	179 / 1eU	-- / -- kJ/m ²
Charpy notched impact strength	+ 23°C	179 / 1eA	6,5/ -- kJ/m ²
Charpy notched impact strength	- 30°C	179 / 1eA	-- / -- 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	230 / 3000 E-4
Comparative tracking index (C.T.I.)	test liquid A	IEC 112	600 step
Electric strength		IEC 243-1	100 / 60 kV/mm
Relative permittivity	1 MHz	IEC 250	3,7 / 7,0
Thermal properties			
Melting temperature	10 K/min	3146	223 °C
Temp. of deflection under load (HDT)	0,45 Mpa	75 - 1/2	170 °C
	1,8 Mpa	75 - 1/2	65 °C
max. using temperature	short time		175 °C
	continuous (GTP 50% tensile)	IEC 216	70 °C
Flammability			
Flammability	1,6 mm	UL 94	-- step
	3,0 mm	UL 94	-- step
Glow wire test	plate 3 mm	IEC 695-2-1	-- °C
Other properties			
Density	+23°C	53479	1,13 g/cm ³
Ash content		3451	-- %
Melt volume-flow rate		1133	-- ml/10 min
K - value		96% H2SO4	70 - 76

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Note: dr = dry; cd = conditioned;

Note:

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