

MATERIAL DATA SHEET

**BERGAMID A70 G30 HW BLACK C T 70**

Polyamide 6.6, 30 % glass fiber reinforced, heat and hydrolysis stabilized, black

Property	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	1,36	g/cm <sup>3</sup>
Moisture Absorption (23 C / 50%RH)	ISO 62	5,8	%
Humidity Absorption (23 C / 50%RH)	ISO 62	1,8	%
Ash Content		30 ± 2	%
Mould Shrinkage (Parallel)	ASTM D955	0,3	%
(Perpendicular)		1,1	%
<b>Mechanical</b>			
Tensile Strength	ISO 527	150	MPa
Elongation at Break	ISO 527	3,00	%
Tensile Modulus	ISO 527	9000	MPa
Flexural Strength at break	ISO 178	260	MPa
<b>Impact</b>			
Charpy Unnotched, +23 C	ISO 179/1eU	80,00	kJ/m <sup>2</sup>
Charpy Unnotched, -30 C	ISO 179/1eU	70,00	kJ/m <sup>2</sup>
Charpy Notched, +23 C	ISO 179/1eU	11,00	kJ/m <sup>2</sup>
Charpy Notched, -30 C	ISO 179/1eU	10,00	kJ/m <sup>2</sup>
Izod Impact, notched +23 C	ISO 180/1A	9,00	kJ/m <sup>2</sup>
Izod Impact, notched -30 C	ISO 180/1A	7,00	kJ/m <sup>2</sup>
<b>Thermal</b>			
Coeff.of Thermal.Exp. parallel	DIN 53752	0,18 E-04	1 /°K
normal	DIN 53752	0,62 E-04	1 /°K
Melting Range	-	260 - 265	°C
Vicat Softening Temperature	ISO 306	255	°C
HDT	ISO 75A	253	°C
	ISO 75B	256	

<b>Flammability</b>			
Flammability (1.6mm)	UL 94	HB	-
<b>Electrical</b>			
Volume Resistivity	IEC 93	10 <sup>15</sup>	Ohm-cm
Surface Resistivity, ROA	IEC 93	10 <sup>13</sup>	Ohm
Dielectric Dissipation Factor	IEC 250	150	E-4
Dielectric Constant	IEC 250	3,7	KV/mm
Electric Strength	IEC 243-1	90	Class
Comparative Tracking Index	IEC 112/3rd	500	V

Note: The above values are typical of samples molded and tested in laboratory conditions. The actual values may vary depending on the processing conditions and end use.