

Technical Data Sheet

Piramid® A5 GF30 Black (PA6.6 + 30% GF Black)



Polyamide 6.6 injection moulding standard grade with 30% of glass fiber reinforcement

Properties	Test Conditions	Test Method	Units	Dry as moulded	conditioned 23° C, 50% r.H.
Mechanical Properties					
Modulus of Elasticity, tensile	23° C, 1 mm/Min	ISO 527-1/2	Mpa	10000	7100
Yield Stress	23° C, 50 mm/Min	ISO 527-1/2	Mpa	*	*
Yield Strain	23° C, 50 mm/Min	ISO 527-1/2	%	*	*
Nominal Stress at Break	23° C, 50 mm/Min	ISO 527-1/2	%	*	*
Stress at Break	23° C, 5 mm/Min	ISO 527-1/2	Mpa	190	130
Strain at Break	23° C, 5 mm/Min	ISO 527-1/2	%	3	5
Bending Strength	23° C	ISO 178	Mpa	270	220
Charpy Impact Strength, unnotched	23° C -30° C	ISO 179/1eU ISO 179/1eU	kJ/m2 kJ/m2	85 70	95 -
Notched Charpy Impact Strength	23° C -30° C	ISO 179/1eA ISO 179/1eA	kJ/m2 kJ/m3	14 14	17 *
Izod notched Impact Strength	23° C -30° C	ISO 180/1A ISO 180/1A	kJ/m2 kJ/m4	13 12	16 -
Thermal Properties					
Melting Temperature	10 K/Min	ISO 3146	°C	262	*
Temperature of Deflection under Load	0,45 MPa 1,8 Mpa	ISO 75-1/2 ISO 75-1/2	°C °C	250 250	* *
Coefficient of Linear Thermal Elongation	längs quer	DIN 53752 DIN 53752	E-4/K E-4/K	0,18 0,64	* *
Maximum Service Temperature	some hours 20 000 h 50 % Decrease in Tensile Strength or Yield Stres	- IEC 216	°C °C	230 110	* *
Flammability	0,8 mm 1,6 mm	UL 94 UL 94	Stufe Stufe	HB HB	* *
Glow Wire Test	0,75 mm / 1,6 mm 0,75 mm / 1,6 mm	GWIT GWFI	IEC-60695-2-13 IEC-60695-2-12	- -	* *
Electric Properties					
Relative Permittivity	1 MHz	IEC 250	-	3,5	5,5
Dissipation Factor	1 MHz	IEC 250	E-4	140	1600
Specific Volume Resistivity	-	IEC 93	Ohm cm	10 ¹⁵	10¹²
Specific Surface Resistivity	-	IEC 93	Ohm	10 ¹²	10¹⁰
Dielectric Strength	-	IEC 243-1	kV/mm	35	-
Comparative Tracking Index	-	IEC 112	Stufe	500	-
Other data					
Water Absorption	23° C, Saturation	ISO 62	%	6	*
Moisture Absorption	23° C, 50 % r.H.	ISO 62	%	2	*
Density	23° C	ISO 1183	g/ccm	1,36	*
Processing					
Melt Temperature	-	-	°C	285-305	*
Tool Surface Temperature	-	-	°C	80-110	*
Drying Temperature	-	-	°C	80	*
Drying Time	-	-	h	2-4	

LEGEND:

- 1 Test Specimen according to ISO 3167, Type A
- 2 Standard bar (80 x 10 x 4) mm
- 3 Compound for moulding
- 4 Standard bar (110 x 10 x 4) mm
- 5 Specimen (≥10x10x4) mm
- 6 Standard bar [125 x 13 x 0,8(1,6)] mm
- 7 Bar (80 x 80 x 1) mm
- 8 Specimen (≥15x15x4)mm

* not relevant
- not tested
NB = No break

These data are typical values and represent the state of our knowledge at issue date. If not otherwise stated, the data is related to uncoloured material. They must not be construed as specification limits or as a guarantee for specific properties. It is the liability of the processor to test the suitability of the material for a specific application.

*Note: The material is made by Bada AG in germany and **only used once** in injection mould machine.

Thank you for your Attention!

www.pirooz-polymer.com www.pishco-groupe.com Email : info@pishco.com