

TECHNYL® B 218 BLACK 21 N

Product Datasheet - October 2010

Description

Unreinforced copolyamide PA 66/6 , heat stabilized , medium viscosity, for injection moulding .

Product Applications

TECHNYL® B 218 offers all of the primary properties of unreinforced polyamide 66 .In addition , it has improved resistance to high temperature , and can be used for components which will withstand long-term temperature stresses , such as:

- automotive industry: diagnostic plugs, ashtray bodies and covers.
- electrical industry: housings , connectors , terminal blocks .

This product is available in natural , black and grey.

Processing

The material is supplied in airtight bags, ready for use. In the case that the virgin material has absorbed moisture, it must be dried to a final moisture content of less than 0,2% with a dehumidified air drying equipment at approx 80°C Recommended moulding conditions : Barrel temperatures :

- feed zone 240- 250°C
- compression zone 250- 260°C
- front zone 260 - 270°C
- Mould temperatures : 60 at 80°C

For more detailed information , please refer to the technical sheet Injection moulding.

Safety

Please refer to the Material Safety Data Sheet 2DLNN3EM8FS



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The values of properties are for natural grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	1.60	-
Density	ISO 1183-A	g/cm3	1.14	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	1.40	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	1.40	-
Molding Shrinkage Isotropy (Rhodia EP)	RHODIA-EP		1	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	3000	1100
Tensile strength at yield	ISO 527 type 1 A	MPa	95	50
Elongation at yield	ISO 527 type 1 A	%	5	25
Elongation at break	ISO 527 type 1 A	%	30	400
Tensile strength at break	ISO 527 type 1 A	MPa	75	60
Flexural modulus	ISO 178	MPa	3000	1200
Flexural maximum stress	ISO 178	MPa	125	50
Charpy notched impact strength	ISO 179/1eA	kJ/m2	5	16
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	NB	NB
Izod notched impact strength	ISO 180/1A	kJ/m2	5	16
Flamability				
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	650	-
Limit Oxygen index	ISO 4589		23	-
Thermal				
Melting Temperature	ISO 11357	°C	242	-
Electrical				
Dissipation factor	IEC 60250		0.03	0.10
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E12
Surface resistivity	IEC 60093	Ohm	10E13	10E11
Dielectric strength	IEC 60243	kV/mm	25	24
Comparative tracking index sol. A	IEC 60112	Volt	525	600
Comparative tracking index sol. B	IEC 60112	Volt	425	-
Specific				
IMDS id number	Rhodia		4669547 / 2	-

Identification Code : >PA66/6<

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d.a.m*.

Cond.**

