

TECHNYL® B 218L V30 BLACK 44 N

Product Datasheet - April 2006

Description

Copolyamide 66/6, reinforced with 30% of glass fibre, for injection moulding, heat stabilized with improved UV ageing resistance.

Product Applications

TECHNYL B 218L V30 noir 44N is used in all sectors of industry, offering an excellent combination of thermal and mechanical properties. This grade is commonly used for automotive applications which require a good surface appearance and a good UV resistance, such as:

- external mirror housings and door handles.

This product is available in black color.

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 250 - 270°C
- compression zone 260 - 270°C
- front zone 270 - 280°C

Mould temperatures : 80 at 100°C

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

Safety

Please refer to the Safety Data Sheet H97DMG8R8FS

TECHNYL® B 218L V30 BLACK 44 N

The values of properties are for black grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	0.95	-
Density	ISO 1183-A	g/cm3	1.37	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.5	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.70	-
Molding Shrinkage Isotropy	RHODIA-EP		0.71	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	9800	5900
Tensile strain at break	ISO 527 type 1 A	%	3	8
Tensile strength at break	ISO 527 type 1 A	MPa	185	115
Flexural modulus	ISO 178	MPa	8300	4700
Flexural maximum stress	ISO 178	MPa	230	140
Charpy notched impact strength	ISO 179/1eA	kJ/m2	11	16
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	80	92
Izod notched impact strength	ISO 180/1A	kJ/m2	11	19
Flamability				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
Thermal				
Melting Temperature	ISO 11357	°C	242	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	230	-
Coef. of Linear thermal expansion normal or perpendicular (23°C to 85°C)	ISO 11359	E-5 / °C	2.60	-
Electrical				
Relative permittivity	IEC 60250		3.70	-
Dissipation factor	IEC 60250		0.01	-
Volume resistivity	IEC 60093	E14.Ohm.cm	10	0.100000
Surface resistivity	IEC 60093	E14.Ohm	3	0.001000
Dielectric strength	IEC 60243	kV/mm	35	34
Comparative tracking index sol. A	IEC 60112	Volt	450	325

Identification Code : >PA66/6-GF30<

The information contained in this document is supplied in good faith. It is based on the extent of our knowledge of the products as listed, and on the tests and experiments carried out in our laboratories. It is to be used only as an indication and shall not be construed in any way as a format commitment or warranty of our part. Compliance of our products with your conditions or use can only be determined pursuant to your own prior appropriate list. The listed values of properties are for natural grade, if not otherwise specified.

* d.a.m = Dry As Moulded.

** Cond. = Conditioned according ISO 1110.



Engineering Plastics

