TECHNYL® B 218L V20 BLACK 44 N

Product Datasheet - October 2007

Description

Copolyamide 66/6, reinforced with 20% of glass fibre, for injection moulding, heat stabilized with improved UV ageing resistance

Product Applications

TECHNYL B 218L V20 noir 44 N 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 colour.

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 35HD6B2E8FS

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TECHNYL® B 218L V20 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	%	1.20	-
Density	ISO 1183-A	g/cm3	1.29	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.60	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.80	-
Molding Shrinkage Isotropy (Rhodia EP)	RHODIA-EP		0.75	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	7000	4500
Elongation at break	ISO 527 type 1 A	%	3	9
Tensile strength at break	ISO 527 type 1 A	MPa	140	85
Flexural modulus	ISO 178	MPa	5800	3500
Charpy notched impact strength	ISO 179/1eA	kJ/m2	7	9
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	45	83
Izod notched impact strength	ISO 180/1A	kJ/m2	8	13
Flamability				
Flammability UL 94 (Thickness 0,8 mm)	ISO 1210/UL 94		HB	-
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
Limit Oxygen index	ISO 4589		23	-
Thermal				
Melting Temperature	ISO 11357	°C	242	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	230	-
Coef. of Linear thermal expansion parallel (23°C to 85°C)	ISO 11359	E-5 / °C	3.5	-
Electrical				
Relative permittivity	IEC 60250		3.70	4
Dissipation factor	IEC 60250		0.01	0.11
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E12
Surface resistivity	IEC 60093	Ohm	30E13	10E11
Dielectric strength	IEC 60243	kV/mm	32	28
Comparative tracking index sol. A	IEC 60112	Volt	450	-
Specific				
IMDS id number	Rhodia		72372851 / 1	-

Identification Code : >PA66/6-GF20<

d.a.m*.

Cond.**

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