TECHNYL® A 218G V30

Product Datasheet - June 2007

Description

Polyamide PA66, reinforced with 30% of glass fibre, for injection moulding specially stabilized to improve its resistance automotive cooling liquids.

Product Applications

TECHNYL® A 218G V30 is particularly recommended for the injection moulding of parts in permanent contact with cooling liquids in cars, such as:-cooling and heating radiator systems, header tanks, thermostat components, inlet/outlet pipes.

This product is available in natural

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 less than 0.2% with a dehumidified air drying equipment at approx.80°C.
Recommended moulding conditions:

-Barrel temperatures:

-feed zone	260-270°C
-compression zone	270-280°C
-front zone	280-290°C

-Mould temperatures:

80-100°C

-For additional technological advice, please refer to the technical sheet " injection moulding".

Safety

Please refer to the Safety Data Sheet EQFBLNM18FS

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TECHNYL® A 218G V30

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	%	0.80	-
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	%	0.80	-
Molding Shrinkage Isotropy	RHODIA-EP		0.62	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	10000	7500
Elongation at break	ISO 527 type 1 A	%	3	4
Tensile strength at break	ISO 527 type 1 A	MPa	190	135
Flexural modulus	ISO 178	MPa	9300	-
Charpy notched impact strength	ISO 179/1eA	kJ/m2	12	16
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	80	95
Charpy unotched impact after ageing water/glycol (200h at 120°C)	ISO 179/1fU	kJ/m2	70	-
Izod notched impact strength	ISO 180/1A	kJ/m2	11	16
Flamability				
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	700	-
Limit Oxygen index	ISO 4589		23	-
Thermal				
Melting Temperature	ISO 11357	°C	263	-
Electrical				
Relative permittivity	IEC 60250		3.70	4
Dissipation factor	IEC 60250		0.01	0.11
Volume resistivity	IEC 60093	Ohm.cm	50E13	10E12
Surface resistivity	IEC 60093	Ohm	60E13	10E11
Dielectric strength	IEC 60243	kV/mm	34	29
Comparative tracking index sol. A	IEC 60112	Volt	450	425
Specific				
IMDS id number	Rhodia		28665676 / 1	-

Identification Code : >PA66-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*.

Cond.**

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