TECHNYL® A 218 V50

Product Datasheet - June 2007

Description

Polyamide 66, reinforced with 50% of glass fibre, heat stabilized, for injection moulding.

Product Applications

TECHNYL A 218 V50 is used in all sectors of industry, offering an excellent combination between thermal and mechanical properties. This grade is commonly used in the electrical industry, i.e. bobbin coil former, and in the automotive industry for engine components.

This product is available in natural and black.

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	260 - 270°C
	- compression zone	270 - 280°C
	- front zone	280 - 290°C
Mould temperatures:		60 at 100°C

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

Safety

Please refer to the Safety Data Sheet 4RGO3JAD8FS

Postal Adress Rhodia Polyamide Engineering Plastics : Avenue Ramboz BP 64 69192 Saint-Fons Cedex France Phone : +33.4.72.89.27.00 Fax : +33.4.72.89.27.01.
Company Name : Rhodia Operations Registered Office : 40, rue de la Haie-Coq 93306 Aubervilliers Cedex France - Phone : + 33 1 53 56 50 00 Fax : +33 1 53 56 55 55.

TECHNYL® A 218 V50

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	%	0.60	-
Density	ISO 1183-A	g/cm3	1.57	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.44	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.80	-
Molding Shrinkage Isotropy	RHODIA-EP		0.55	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	16200	12500
Elongation at break	ISO 527 type 1 A	%	2	2.5
Tensile strength at break	ISO 527 type 1 A	MPa	240	175
Flexural modulus	ISO 178	MPa	13500	10000
Charpy notched impact strength	ISO 179/1eA	kJ/m2	16	18
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	95	97
Izod notched impact strength	ISO 180/1A	kJ/m2	14.5	17
Flamability				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
Limit Oxygen index	ISO 4589		23	-
Thermal				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	255	-
Coef. of Linear thermal expansion parallel (23°C to 85°C)	ISO 11359	E-5 / °C	1.5	-
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	60E13	10E11
Dielectric strength	IEC 60243	kV/mm	35	30
Comparative tracking index sol. A	IEC 60112	Volt	450	450
Specific				
IMDS id number	Rhodia		29116484 / 2	-

Identification Code : >PA66-GF50<

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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