TECHNYL® A 219 V25 BLACK 21 N

Product Datasheet - June 2007

Description

Polyamide 66, reinforced with 25% of glass fibre, for injection moulding specially stabilized to improve its resistance to oils and greases.

Product Applications

This product is recommended for moulded parts exposed to high temperatures and in contact with oils and greases .Bearing housings are a typical example for which this formulation is suitable. TECHNYL A 219 V25 is approved by major bearing manufacturers.

This product is available in 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 80°C

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

Safety

Please refer to the Safety Data Sheet R734J9O28FS

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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	%	0.90	-
Density	ISO 1183-A	g/cm3	1.32	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.70	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.90	-
Molding Shrinkage Isotropy	RHODIA-EP		0.78	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	8200	6100
Elongation at break	ISO 527 type 1 A	%	3	7
Tensile strength at break	ISO 527 type 1 A	MPa	165	110
Flexural modulus	ISO 178	MPa	7000	4700
Charpy notched impact strength	ISO 179/1eA	kJ/m2	9	11
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	40	80
Izod notched impact strength	ISO 180/1A	kJ/m2	8	11
Flamability				
Limit Oxygen index	ISO 4589		27	-
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	2.70	-
Electrical				
Relative permittivity	IEC 60250		3.5	5.5
Dissipation factor	IEC 60250		0.01	0.16
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E11
Surface resistivity	IEC 60093	Ohm	10E13	10E10
Dielectric strength	IEC 60243	kV/mm	50	36
Comparative tracking index sol. A	IEC 60112	Volt	550	525

Identification Code : >PA66-GF25<

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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