

TECHNYL® A 248 V33

Product Datasheet - June 2007

Description

Polyamide 66, reinforced with 33% of glass fibre, heat stabilized, with high impact resistance, for injection moulding.

Product Applications

TECHNYL A 248 V33 offers an excellent compromise in stiffness and impact resistance, even at low temperatures. This grade is particularly recommended for the moulding of parts which are subjected to high thermo-mechanical stresses rates, such as:

- under bonnet automotive covers,
- housings for electro-mechanical hand tools,
- sports and leisure : roller-skates frames

This product is available in black, and in colours on request.

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 270 - 280°C
- front zone 280- 290°C

Mould temperatures : 80 at 100°C

Safety

Please refer to the Safety Data Sheet

TECHNYL® A 248 V33

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	%	1.25	-
Density	ISO 1183-A	g/cm3	1.39	-
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	8500	6000
Tensile strength at yield	ISO 527 type 1 A	MPa	130	100
Elongation at break	ISO 527 type 1 A	%	4	8
Tensile strength at break	ISO 527 type 1 A	MPa	130	100
Flexural modulus	ISO 178	MPa	7800	5500
Charpy notched impact strength	ISO 179/1eA	kJ/m2	14	22
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	80	90
Izod notched impact strength	ISO 180/1A	kJ/m2	15	18
Thermal				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	248	-
Coef. of Linear thermal expansion normal or perpendicular (23°C to 85°C)	ISO 11359	E-5 / °C	2.5	-
Electrical				
Dissipation factor	IEC 60250		0.01	0.06
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E11
Surface resistivity	IEC 60093	Ohm	10E14	10E12
Dielectric strength	IEC 60243	kV/mm	34	29
Comparative tracking index sol. A	IEC 60112	Volt	450	475
Specific				
IMDS id number	Rhodia		36801566 / 1	-

Identification Code : >PA66-GF33<

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.**



Engineering Plastics

