TECHNYL® C 216 V45

Product Datasheet - October 2004

Description

Polyamide PA6, reinforced with 45% of glass fibre, for injection moulding.

Product Applications

TECHNYL C 216 V45 has been optimized to have high impact strength, a nice surface aspect and being easy to paint. It has been especially developed for the market of ski bindings, but can be advised as well for any part requiring a high rigidity as well as high impact strength.

This product is available in natural and black colours

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	225 - 230°C
	- compression zone	240 - 255°C
	- front zone	245 - 255°C
Mould temperatures:		80 at 120°C

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

Safety

Please refer to the Safety Data Sheet L0POC0TG8FS

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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	1.51	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.20	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.60	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	13000	8300
Tensile strain at break	ISO 527 type 1 A	%	2.5	3.90
Tensile strength at break	ISO 527 type 1 A	MPa	190	145
Charpy notched impact strength	ISO 179/1eA	kJ/m2	13	20
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	90	85
Thermal				
Melting Temperature	ISO 11357	°C	222	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	210	-
Coef. of Linear thermal expension normal or perpendicular (23°C to 85°C)	ISO 11359	E-5 / °C	2	-
Electrical				
Comparative tracking index sol. A	IEC 60112	Volt	475	-

Identification Code : >PA6-GF45<

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 = Dry As Moulded.

** Cond. = Conditioned according ISO 1110.

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