

## TECHNYL® C 216 V45

Product Datasheet - November 2008

### 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

# TECHNYL® C 216 V45

The values of properties are for natural grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
<b>Physical</b>				
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	-
<b>Mechanical</b>				
Tensile modulus	ISO 527 type 1 A	MPa	13000	8300
Elongation 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
<b>Thermal</b>				
Melting Temperature	ISO 11357	°C	222	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	210	-
Coef. of Linear thermal expansion normal or perpendicular ( 23°C to 85°C)	ISO 11359	E-5 / °C	2	-
<b>Electrical</b>				
Comparative tracking index sol. A	IEC 60112	Volt	475	-
<b>Specific</b>				
IMDS id number	Rhodia		36801233/ 1	-

## Identification Code : >PA6-GF45<

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d.a.m\*.

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