

TECHNYL® C 216 V40

Product Datasheet - June 2007

Description

Polyamide PA6, reinforced with 40 % of glass fibre, for injection moulding.

Product Applications

It has good mechanical properties, it is used in all sectors of industry, offering an excellent combination between thermal and mechanical properties.

It is used in the automotive industry and electrical sectors.

This product is available in black and natural.

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 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	230 - 240°C
front zone	240 - 250°C

- Mould temperatures : 80 - 100 °C

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

Safety

Please refer to the Safety Data Sheet 967B03B48FS

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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	%	0.90	-
Density	ISO 1183-A	g/cm3	1.45	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	13100	7300
Tensile strength at yield	ISO 527 type 1 A	MPa	350	210
Elongation at break	ISO 527 type 1 A	%	2.30	3.5
Tensile strength at break	ISO 527 type 1 A	MPa	215	140
Flexural modulus	ISO 178	MPa	13000	7200
Charpy notched impact strength	ISO 179/1eA	kJ/m2	18	34
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	107	115
Izod notched impact strength	ISO 180/1A	kJ/m2	16	29
Flamability				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	650	-
Thermal				
Melting Temperature	ISO 11357	°C	222	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	214	-
Heat deflection temperature 0,45 Mpa	ISO 75/Bf	°C	2.60	-
Electrical				
Dissipation factor	IEC 60250		0.02	0.09
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E10
Surface resistivity	IEC 60093	Ohm	10E12	10E10
Dielectric strength	IEC 60243	kV/mm	-	22
Comparative tracking index sol. A	IEC 60112	Volt	550	475

Identification Code : >PA6-GF40<

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d.a.m*.

Cond.**



Engineering Plastics

