

Description

Polyamide PA6, reinforced with 30 % of glass fibre, high impact strength, for injection moulding.

Product Applications

Having good mechanical properties, this grade is used in all sectors of industry. It is suitable for moulding of sporting and leisure goods such as roller-skates frames but also for moulding of power tools or chainsaws.

This product is available 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 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	225 - 235°C
front zone	230 - 240°C

- Mould temperatures: 70 - 90 °C

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

Safety

Please refer to the Safety Data Sheet EM87DTHB8FS

TECHNYL® C 246 V30

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	%	0.95	-
Density	ISO 1183-A	g/cm3	1.32	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.44	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.79	-
Molding Shrinkage Isotropy	RHODIA-EP		0.56	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	8200	5400
Elongation at break	ISO 527 type 1 A	%	4	7
Tensile strength at break	ISO 527 type 1 A	MPa	140	90
Flexural modulus	ISO 178	MPa	8000	5200
Charpy notched impact strength	ISO 179/1eA	kJ/m2	18	30
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	86	102
Izod notched impact strength	ISO 180/1A	kJ/m2	17	29
Flamability				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
Thermal				
Melting Temperature	ISO 11357	°C	222	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	195	-
Coef. of Linear thermal expansion normal or perpendicular (23°C to 85°C)	ISO 11359	E-5 / °C	3	-
Electrical				
Dissipation factor	IEC 60250		0.02	0.10
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E10
Surface resistivity	IEC 60093	Ohm	10E12	10E10
Dielectric strength	IEC 60243	kV/mm	-	21

Identification Code : >PA6-GF30<

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d.a.m*.

Cond.**



Engineering Plastics

