TECHNYL ®   A 216 V15

Description

Polyamide PA66 , reinforced with 15% of glass fibre , for injection moulding.

Applications

TECHNYL A 216 V15   is used in all sectors of industry , offering and excellent combination between   thermal   and mechanical properties .
This grade is used in :

 - automotive industry,
 - manufacture of components for electrical tools,
 - transport and building.

This product is available in natural , grey and 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   260 - 270°C
                         - compression zone   270 - 280°C
                         - front zone   280 - 290°C

 Mould temperatures :   60 at 80°C

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

Safety

Please refer to the Material Safety Data Sheet A1

Rhodia

Engineering Plastics

TECHNYL ® A 216 V15

Main properties

Values measured at 23 °C   The values of properties are for natural grade.

Properties		Standards	Unit	Values	
				EH 0 – 23 °C	EH 50 – 23 °C
Physical	Water absorption, 24h in water at 23°C	ISO 62	%	1.1	-
	Density	ISO 1183-A	g/cm3	1.24	-
	Moulding shrinkage longitudinal	RHODIA-EP	%	0.8	-
	Moulding shrinkage transverse	RHODIA-EP	%	1.1	-
Mechanical	Tensile Modulus	ISO 527	MPa	6200	4300
	Yield stress	ISO 527	MPa	125	90
	Nominal elongation at break	ISO 527	%	4	8
	Tensile stress at break	ISO 527	MPa	125	90
	Flexural modulus	ISO 178	MPa	5300	3500
	Flexural strength	ISO 178	MPa	190	115
	Charpy notched impact strength	ISO 179/1EA-1993	kJ/m2	7	7.5
	Charpy notched impact strength ISO179/1A	ISO 179-1982	kJ/m2	6.5	8.5
	Charpy impact strength	ISO 179/1EU-1993	kJ/m2	41	67
	Charpy impact strength ISO 179/1D	ISO 179-1982	kJ/m2	35	45
	Izod notched impact strength	ISO 180	kJ/m2	6	9
Thermal	Melt temperature	ISO 3146 - C	°C	263	-
	Temper. of dimensional stability 1,8 MPa	ISO 75-2	°C	245	-
	Coef. linear expansion longit. 23°C-85°C	ASTM E 831	E-5 / °C	3.5	-
	Flammability UL94 thickness 1,6 mm	ISO 1210/UL 94	-	HB	-
	Glow wire test thickness 1,6 mm	IEC 695-2-1	°C	650	-
Electrical	Relative permittivity 1MHz	IEC 250	-	3.7	4
	Dissipation factor 1 MHz	IEC 250	-	0.01	0.11
	Volume resistivity	IEC 93	E14.Ohm.cm	10	0.1
	Surface resistivity	IEC 93	E14.Ohm	6	0.01
	Dielectric strength	IEC 243-1	kV/mm	31	30
	Comparative tracking index KC	IEC 112	Volt	600	600
	Comparative tracking index KB	IEC 112	Volt	525	-
Specifical	Limit oxygen index	ISO 4589	%	24	-

Identification code   >PA66-GF15<

CRhodia

Engineering Plastics