

TECHNYL® A 218 V25

Product Datasheet - June 2007

Description

Polyamide 66, reinforced with 25% of glass fibre, heat stabilized, for injection moulding.

Product Applications

TECHNYL A 218 V25 is used in all sectors of industry, offering an excellent combination between thermal and mechanical properties.

This grade is commonly used in the automotive industry for engine components, such as:

- air ducts
- and various liquid containers.

This product is available in natural and black.

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 Safety Data Sheet
CLM8P8IH8FS

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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	1.32	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.60	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.85	-
Molding Shrinkage Isotropy	RHODIA-EP		0.70	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	8400	6300
Tensile strength at yield	ISO 527 type 1 A	MPa	-	165
Elongation at break	ISO 527 type 1 A	%	3	4
Tensile strength at break	ISO 527 type 1 A	MPa	165	120
Flexural modulus	ISO 178	MPa	7300	5000
Charpy notched impact strength	ISO 179/1eA	kJ/m2	10	13
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	57	87
Izod notched impact strength	ISO 180/1A	kJ/m2	8.5	15
Flamability				
Flammability UL 94 (Thickness 0,38 mm)	ISO 1210/UL 94		HB	-
Flammability UL 94 (Thickness 0,8 mm)	ISO 1210/UL 94		HB	-
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	-
Limit Oxygen index	ISO 4589		23	-
Thermal				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	255	-
Coef. of Linear thermal expansion parallel (23°C to 85°C)	ISO 11359	E-5 / °C	2.70	-
Electrical				
Relative permittivity	IEC 60250		3.70	4
Dissipation factor	IEC 60250		0.01	0.11
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E12
Surface resistivity	IEC 60093	Ohm	60E13	10E11
Dielectric strength	IEC 60243	kV/mm	32	28
Comparative tracking index sol. A	IEC 60112	Volt	450	425
Specific				
IMDS id number	Rhodia		7693776 / 2	-

Identification Code : >PA66-GF25<

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d.a.m*.

Cond.**



CHALLENGING BOUNDARIES

Engineering Plastics