Description

Flame retardant polyamide 66, unreinforced, heat stabilised, for injection moulding.

Product Applications

This phosphorus and halogen free flame retardant grade, offers excellent filling qualities combined with good stiffness.

It is particularly suitable for moulding insulating parts for electrical components:

- Components for electrical connections: junction blocks, terminal blocks, connectors.

This product is available in natural. Other colours can be provided upon 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
compression zone
front zone
265 - 275°C
265 - 275°C
270 - 280°C
Mould temperatures:
60 at 80°C

Safety

Please refer to the Safety Data Sheet



TECHNYL® A 50H1

The values of properties are for natural grade.

Properties	Standards	Unit	Values	
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	0.88	-
Density	ISO 1183-A	g/cm3	1.16	-
Molding shrinkage normal or perpendicular (ISO 294-4)	ISO 294-4	%	0.95	-
Molding shrinkage Parallel (ISO 294-4)	ISO 294-4	%	1.10	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	3800	2200
Tensile strength at yield	ISO 527 type 1 A	MPa	86	53
Tensile strain at yield	ISO 527 type 1 A	%	4.22	22.30
Tensile strain at break	ISO 527 type 1 A	%	21	140
Tensile strength at break	ISO 527 type 1 A	MPa	75	46
Flexural modulus	ISO 178	MPa	3700	1710
Flexural maximum stress	ISO 178	MPa	137	61
Charpy notched impact strength	ISO 179/1eA	kJ/m2	3.20	10.10
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	114	-
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	130	NB
Izod notched impact strength	ISO 180/1A	kJ/m2	3	10
Flamability				
Flammability UL 94 (Thickness 0,38 mm)	ISO 1210/UL 94		V0	-
Flammability UL 94 (Thickness 0,8 mm)	ISO 1210/UL 94		V0	-
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		V0	-
Flammability UL 94 (Thickness 3,2 mm)	ISO 1210/UL 94		V0	-
Glow wire flammability index (thickness = 0,8)	IEC 60695-2-12	°C	960	-
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	960	-
Glow wire flammability index (thickness = 3,2)	IEC 60695-2-12	°C	960	-
Glow wire ignatability temperature (thickness = 1,6)	IEC 60695-2-13	°C	725	-
Thermal				
Melting Temperature	ISO 11357	°C	263	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	85	-
Heat deflection temperature 0,45 Mpa	ISO 75/Bf	°C	237	-
Electrical				
Comparative tracking index sol. A	IEC 60112	Volt	600	-

Identification Code: >PA66 FR(30)<

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