Technyl® A 30G1

PA66 FR — Solvay Engineering Plastics

Product Texts

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

This flame retardant grade, UL 94 V-0 (0.4 mm), GWIT 850°C (0,8 mm) offers best in class flammability performance combined with excellent impact and strain properties. It is particularly suitable for moulding electrical components such as connections, junction blocks, terminal blocks and connectors.

This product is also suitable for use in electrical appliances needing to comply with the IEC 60335-1 regulation.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	2800 / -	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	110 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5.8 / -	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	250 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	85 / *	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Comparative tracking index	250 / -	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1320 / -	kg/m³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, mold temperature	80	°C	ISO 10724

Characteristics

Processing	Special Characteristics
Injection Molding	Flame retardant, Heat stabilized or stable to heat

Other text information

Injection Molding

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 270 - 270°C
- compression zone 260 - 280°C
- front zone 270 - 290°C

Mould temperatures: 60 at 80°C