Technyl® C 50H2

PA6 FR — Solvay Engineering Plastics

Product Texts

Flame retardant unreinforced polyamide PA6, heat stabilized, for injection moulding.

Phosphorus and halogen free grade (UL94 V0)has an excellent mouldability and a good stiffness.

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

- Junction blocks,
- Terminal blocks,
- Terminal connectors.

This product is available in natural, black, and in other colour shades upon request.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3700 / 2200	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	90 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 15	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	75 / *	°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	0.8 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Oxygen index	36 / *	%	ISO 4589-1/-2

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 60093
Surface resistivity	* / 1E12	Ohm	IEC 60093
Electric strength	34 / 30	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	1.1 / *	%	Sim. to ISO 62
Density	1160 / -	kg/m³	ISO 1183

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

Characteristics

Processing
Injection Molding

Special Characteristics
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 220 - 230°C
- compres sion zone 230 - 240°C
-front zone 245 - 255°C

Mould temperatures: 80°C