


Technyl® C 50H2

PA6 FR

Solvay Engineering Plastics

Product Texts

Flame retardant unmodified polyamide (PA6) resin stabilized for injection moulding.

Phosphorus and halogen free grade (UL94 V0) has an excellent recyclability and a good efficiency.

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/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 15	kJ/m ²	ISO 179/1eA
Thermal properties			
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			
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			
ISO Data			
Water absorption	1.1 / *	%	Sim. to ISO 62
Density	1160 / -	kg/m ³	ISO 1183
Test specimen production			
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 220 - 230°C

- compression zone 230 - 240°C

- front zone 245 - 255°C

Mould temperatures: 80°C