Technyl® C 52G1 V25

PA6-GF25 Solvay Engineering Plastics

Product Texts

Polyamide 6, **25% Glass-fiber reinforced, glow-wire modified, lubricated for injection moulding.**

TECHNYL® C 52G1 V25 is used in all sectors of industry, offering good glow wireperformance and heat resistance and productivity.

This grade is specifically suited for

- contactors and switches

This product is available in grey colour and in colors on request.

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.8 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	6850 / 4350	MPa	ISO 527-1/-2
Stress at break	85 / 51	MPa	ISO 527-1/-2
Strain at break	2.7 / 4.2	%	ISO 527-1/-2
Charpy impact strength (+23°C)	41 / 84	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3.5 / 8.6	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Burning behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Burning behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Oxygen index	33 / *	%	ISO 4589-1/-2

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Comparative tracking index	550 / -	-	IEC 60112

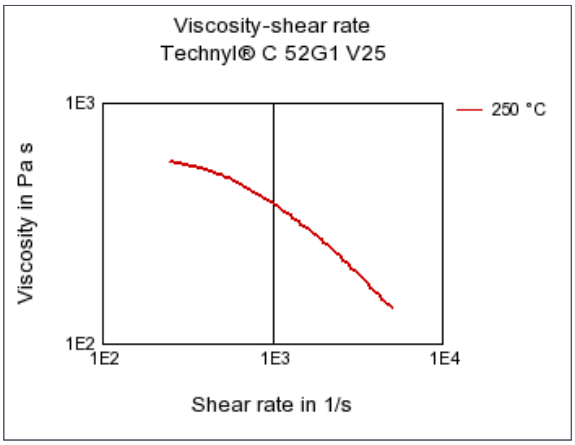
Other properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	1.1 / *	%	Sim. to ISO 62
Density	1350 / -	kg/m³	ISO 1183

Technyl® C 52G1 V25

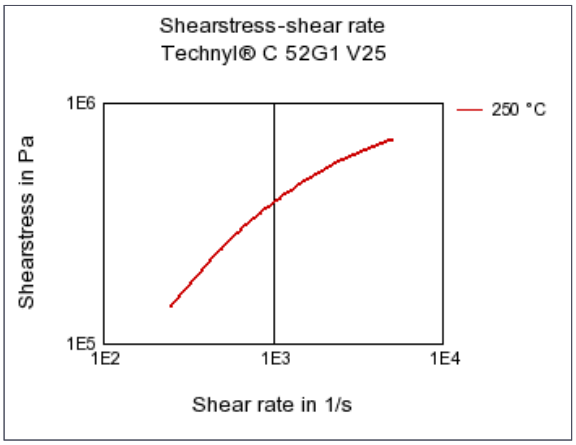
PA6-GF25 Solvay Engineering Plastics

Diagrams

Viscosity-shear rate



Shearstress-shear rate



Characteristics

Processing

Injection Molding

Additives

Lubricants

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 less than 0.2% with a dehumidified air drying equipment at approx.80°C

Recommended moulding conditions:

- Mould

-Barrel temperatures: -feed zone 230 ~ 240°C

- compression zone 235 ~ 245°C