

## TECHNYL® C 52G3 MZ25

Product Datasheet - June 2006

### Description

Flame retardant polyamide PA6 reinforced with mineral filler, for injection moulding.

### Product Applications

This phosphorus and halogen free flame retardant grade is particularly suitable for equipment with robust glow-wire resistance such as MCB housings.

This grade is available in grey colour.

### 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	220 - 230°C
	-compression zone	230 - 240°C
	-front zone	245 - 255°C

Mould temperatures :	80°C
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For more detailed information , please refer to the technical sheet "Injection moulding".

### Safety

Please refer to the Safety Data Sheet N5H5GI538FS

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The values of properties are for they grey grade.

Properties	Standards	Unit	Values	
			d.a.m**	Cond.**
<b>Physical</b>				
Water absorption (24 h at 23°C)	ISO 62	%	1	-
Density	ISO 1183-A	g/cm3	1.37	-
Molding shrinkage normal or perpendicular (ISO 294-4)	ISO 294-4	%	0.80	-
Molding shrinkage Parallel (ISO 294-4)	ISO 294-4	%	0.80	-
<b>Mechanical</b>				
Tensile modulus	ISO 527 type 1 A	MPa	6000	2500
Tensile strength at yield	ISO 527 type 1 A	MPa	-	35
Tensile strain at yield	ISO 527 type 1 A	%	-	18.20
Tensile strain at break	ISO 527 type 1 A	%	3	122
Tensile strength at break	ISO 527 type 1 A	MPa	80	35
Flexural modulus	ISO 178	MPa	6000	2300
Flexural maximum stress	ISO 178	MPa	136	56
Charpy notched impact strength	ISO 179/1eA	kJ/m2	3	5.80
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	45	60
<b>Flamability</b>				
Flammability UL 94 (Thickness 0,8 mm)	ISO 1210/UL 94		V2	-
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		V2	-
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	-
Limit Oxygen index	ISO 4589		31	-
<b>Thermal</b>				
Melting Temperature	ISO 11357	°C	222	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	130	-
<b>Electrical</b>				
Comparative tracking index sol. A	IEC 60112	Volt	525	-

## Identification Code : >PA6+MD FR(30)<

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\* d.a.m = Dry As Moulded.

\*\* Cond. = Conditioned according ISO 1110.



Engineering Plastics

