


**Technyl® C 52G4 MZ25**

PA6-MF25 FR

Solvay Engineering Plastics

**Product Texts**

Flame-retarded polyamide 66 reinforced with mineral filler, for injection moulding. Enhanced processing behaviour for this melt parts.

The phosphorus and halogen free flame-retarded grade is particularly suitable for equipment with robust gaseous resistance such as MCB housings.

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	6400 / -	MPa	ISO 527-1/-2
Stress at break	75 / -	MPa	ISO 527-1/-2
Strain at break	3 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	47 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	3 / -	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	130 / *	°C	ISO 75-1/-2
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	31 / *	%	ISO 4589-1/-2
<b>Electrical properties</b>			
<b>ISO Data</b>			
Comparative tracking index	525 / -	-	IEC 60112
<b>Other properties</b>			
<b>ISO Data</b>			
Water absorption	1 / *	%	Sim. to ISO 62
Density	1370 / -	kg/m <sup>3</sup>	ISO 1183
<b>Test specimen production</b>			
<b>ISO Data</b>			
Injection Molding, mold temperature	80	°C	ISO 10724
<b>Characteristics</b>			
<b>Processing</b>	<b>Special Characteristics</b>		
Injection Molding	Flame retardant		
<b>Other text information</b>			
<b>Injection Molding</b>			
<p>The material is supplied in original 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.</p> <p>Recommended moulding conditions :</p> <p>Barrel temperatures :</p> <ul style="list-style-type: none"> <li>- feed zone 220 - 230°C</li> <li>-compression zone 230 - 240°C</li> <li>-front zone 245 - 255°C</li> </ul> <p>Mould temperatures : 80°C</p>			

**Chemical Media Resistance**

**Acids**

-  Acetic Acid (5% by mass) (23°C)
-  Citric Acid solution (10% by mass) (23°C)
-  Lactic Acid (10% by mass) (23°C)
-  Hydrochloric Acid (36% by mass) (23°C)
-  Nitric Acid (40% by mass) (23°C)
-  Sulfuric Acid (38% by mass) (23°C)
-  Sulfuric Acid (5% by mass) (23°C)
-  Chromic Acid solution (40% by mass) (23°C)

**Bases**

-  Sodium Hydroxide solution (35% by mass) (23°C)
-  Sodium Hydroxide solution (1% by mass) (23°C)
-  Ammonium Hydroxide solution (10% by mass) (23°C)

**Alcohols**

-  Isopropyl alcohol (23°C)
-  Methanol (23°C)
-  Ethanol (23°C)

**Hydrocarbons**

-  n-Hexane (23°C)
-  Toluene (23°C)
-  iso-Octane (23°C)

**Ketones**

-  Acetone (23°C)

**Ethers**

-  Diethyl ether (23°C)

**Mineral oils**

-  SAE 10W40 multigrade motor oil (23°C)

**Standard Fuels**

-  Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)
-  Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)

**Salt solutions**

-  Zinc Chloride solution (50% by mass) (23°C)

**Other**

-  Ethylene Glycol (50% by mass) in water (108°C)
-  50% Oleic acid + 50% Olive Oil (23°C)
-  Water (23°C)
-  Deionized water (90°C)