

# TECHNYL® A 52G1 MX20 BLACK 61

Polyamide 66  
Solvay Engineering Plastics

Message:  
TECHNYL A 52 G1 MX20 is a Polyamide 6.6 glow wire resistant , reinforced with mineral filler

| General Information                     |                            |                   |                |
|-----------------------------------------|----------------------------|-------------------|----------------|
| Filler / Reinforcement                  | Mineral                    |                   |                |
| Features                                | Good Dimensional Stability |                   |                |
|                                         | Good Surface Finish        |                   |                |
|                                         | Low Warpage                |                   |                |
| Appearance                              | Black                      |                   |                |
| Processing Method                       | Injection Molding          |                   |                |
| Physical                                | Nominal Value              | Unit              | Test Method    |
| Density (23°C)                          | 1.35                       | g/cm <sup>3</sup> | ISO 1183/A     |
| Mechanical                              | Nominal Value              | Unit              | Test Method    |
| Tensile Modulus (23°C)                  | 6800                       | MPa               | ISO 527-2      |
| Tensile Stress (Break, 23°C)            | 60.0                       | MPa               | ISO 527-2      |
| Tensile Strain (Break, 23°C)            | 1.3                        | %                 | ISO 527-2      |
| Flexural Modulus (23°C)                 | 6000                       | MPa               | ISO 178        |
| Flexural Stress (23°C)                  | 115                        | MPa               | ISO 178        |
| Flexural Strain at Break (23°C)         | 3.0                        | %                 | ISO 178        |
| Impact                                  | Nominal Value              | Unit              | Test Method    |
| Charpy Unnotched Impact Strength (23°C) | 25                         | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Thermal                                 | Nominal Value              | Unit              | Test Method    |
| Heat Deflection Temperature             |                            |                   |                |
| 0.45 MPa, Unannealed                    | 230                        | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                     | 165                        | °C                | ISO 75-2/A     |
| Melting Temperature (DSC)               | 260                        | °C                | ISO 3146       |
| Flammability                            | Nominal Value              | Unit              | Test Method    |
| Flame Rating (1.60 mm)                  | V-2                        |                   | UL 94          |
| Glow Wire Flammability Index (3.00 mm)  | 960                        | °C                | IEC 60695-2-12 |
| Injection                               | Nominal Value              | Unit              |                |
| Rear Temperature                        | 235 to 240                 | °C                |                |
| Middle Temperature                      | 240 to 245                 | °C                |                |
| Front Temperature                       | 245 to 250                 | °C                |                |
| Nozzle Temperature                      | 260 to 275                 | °C                |                |
| Mold Temperature                        | 60.0 to 80.0               | °C                |                |

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