

# TECHNYL® A 218 V30 BLACK 34 NG-K

Polyamide 66  
Solvay Engineering Plastics

Message:

TECHNYL® A 218 V30 Black 34 NG-K is a polyamide 66, reinforced with 30% of glass fiber, heat stabilized, for injection molding. The product is available in black color.

| General Information                                     |         |                                  |                   |                 |
|---------------------------------------------------------|---------|----------------------------------|-------------------|-----------------|
| Filler / Reinforcement                                  |         | Glass Fiber,30% Filler by Weight |                   |                 |
| Additive                                                |         | Heat Stabilizer                  |                   |                 |
| Features                                                |         | Glycol Resistant                 |                   |                 |
|                                                         |         | Heat Stabilized                  |                   |                 |
| Uses                                                    |         | Automotive Applications          |                   |                 |
| Agency Ratings                                          |         | UU 453/2010/EC                   |                   |                 |
| RoHS Compliance                                         |         | RoHS Compliant                   |                   |                 |
| Appearance                                              |         | Black                            |                   |                 |
| Processing Method                                       |         | Injection Molding                |                   |                 |
| Part Marking Code (ISO 11469)                           |         | >PA66-GF30<                      |                   |                 |
| Physical                                                | Dry     | Conditioned                      | Unit              | Test Method     |
| Density                                                 | 1.37    | --                               | g/cm <sup>3</sup> | ISO 1183/A      |
| Molding Shrinkage                                       |         |                                  |                   | Internal Method |
| Across Flow                                             | 0.80    | --                               | %                 |                 |
| Flow                                                    | 0.50    | --                               | %                 |                 |
| Mechanical                                              | Dry     | Conditioned                      | Unit              | Test Method     |
| Tensile Elongation (Break)                              | 3.0     | --                               | %                 | ASTM D638       |
| Flexural Modulus                                        | 9500    | --                               | MPa               | ASTM D790       |
| Flexural Strength                                       | 290     | --                               | MPa               | ASTM D790       |
| Impact                                                  | Dry     | Conditioned                      | Unit              | Test Method     |
| Notched Izod Impact (23°C)                              | 120     | --                               | J/m               | ASTM D256       |
| Thermal                                                 | Dry     | Conditioned                      | Unit              | Test Method     |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 255     | --                               | °C                | ASTM D648       |
| Peak Melting Temperature                                | 262     | --                               | °C                | ASTM D3418      |
| CLTE                                                    |         |                                  |                   | ISO 11359-2     |
| Flow : 23 to 85°C                                       | 2.5E-5  | --                               | cm/cm/°C          |                 |
| Transverse : 23 to 85°C                                 | 2.5E-5  | --                               | cm/cm/°C          |                 |
| Electrical                                              | Dry     | Conditioned                      | Unit              | Test Method     |
| Surface Resistivity                                     | 6.0E+14 | 1.0E+12                          | ohms              | IEC 60093       |

|                                        |             |             |         |                |
|----------------------------------------|-------------|-------------|---------|----------------|
| Volume Resistivity                     | 1.0E+15     | 1.0E+13     | ohms·cm | IEC 60093      |
| Electric Strength                      | 34          | 29          | kV/mm   | IEC 60243-1    |
| Relative Permittivity                  | 3.70        | 4.00        |         | IEC 60250      |
| Dissipation Factor                     | 0.010       | 0.11        |         | IEC 60250      |
| Comparative Tracking Index             |             |             |         | IEC 60112      |
| Solution A                             | 600         | 600         | V       |                |
| Solution B                             | 500         | --          | V       |                |
| Flammability                           | Dry         | Conditioned | Unit    | Test Method    |
| Flame Rating                           | HB          | --          |         | UL 94          |
| Glow Wire Flammability Index (1.60 mm) | 650         | --          | °C      | IEC 60695-2-12 |
| Oxygen Index                           | 23          | --          | %       | ISO 4589-2     |
| Injection                              | Dry         | Unit        |         |                |
| Drying Temperature                     | 80.0        |             | °C      |                |
| Suggested Max Moisture                 | 0.20        |             | %       |                |
| Rear Temperature                       | 260 to 270  |             | °C      |                |
| Middle Temperature                     | 270 to 280  |             | °C      |                |
| Front Temperature                      | 280 to 290  |             | °C      |                |
| Mold Temperature                       | 70.0 to 100 |             | °C      |                |

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