

# TECHNYL® C 30H1 V30 NATURAL/F

Polyamide 6  
Solvay Engineering Plastics

Message:  
Flame retardant polyamide PA6, reinforced with 30% glass fibre, for injection moulding.

| General Information                               |       |                                  |                   |                 |
|---------------------------------------------------|-------|----------------------------------|-------------------|-----------------|
| UL YellowCard                                     |       | E44716-235528                    |                   |                 |
| Filler / Reinforcement                            |       | Glass Fiber,30% Filler by Weight |                   |                 |
| Uses                                              |       | Switches                         |                   |                 |
| Appearance                                        |       | Natural Color                    |                   |                 |
| Processing Method                                 |       | Injection Molding                |                   |                 |
| Part Marking Code (ISO 11469)                     |       | >PA6-GF30 FR(17)<                |                   |                 |
| Physical                                          | Dry   | Conditioned                      | Unit              | Test Method     |
| Density                                           | 1.62  | --                               | g/cm <sup>3</sup> | ISO 1183/A      |
| Molding Shrinkage                                 |       |                                  |                   | Internal Method |
| Across Flow                                       | 0.80  | --                               | %                 |                 |
| Flow                                              | 0.60  | --                               | %                 |                 |
| Water Absorption (23°C, 24 hr)                    | 0.95  | --                               | %                 | ISO 62          |
| Molding Shrinkage Isotropy                        | 0.750 | --                               |                   | Internal Method |
| Mechanical                                        | Dry   | Conditioned                      | Unit              | Test Method     |
| Tensile Modulus                                   | 11400 | 8050                             | MPa               | ISO 527-2/1A    |
| Tensile Strain (Break)                            | 1.8   | 6.0                              | %                 | ISO 527-2/1A    |
| Impact                                            | Dry   | Conditioned                      | Unit              | Test Method     |
| Charpy Notched Impact Strength                    | 9.0   | 13                               | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Charpy Unnotched Impact Strength                  | 37    | 40                               | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Thermal                                           | Dry   | Conditioned                      | Unit              | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 197   | --                               | °C                | ISO 75-2/Af     |
| Melting Temperature                               | 222   | --                               | °C                | ISO 11357-3     |
| Electrical                                        | Dry   | Conditioned                      | Unit              | Test Method     |
| Electric Strength                                 | 41    | 38                               | kV/mm             | IEC 60243-1     |
| Dissipation Factor                                | 0.010 | 0.060                            |                   | IEC 60250       |
| Comparative Tracking Index (Solution A)           | 450   | --                               | V                 | IEC 60112       |
| Flammability                                      | Dry   | Conditioned                      | Unit              | Test Method     |
| Flame Rating                                      |       |                                  |                   | UL 94           |

|                                |             |      |                |
|--------------------------------|-------------|------|----------------|
| 0.800 mm                       | V-0         | --   |                |
| 1.60 mm                        | V-0         | --   |                |
| 3.20 mm                        | V-0         | --   |                |
| Glow Wire Flammability Index   |             |      | IEC 60695-2-12 |
| 0.800 mm                       | 960         | --   | °C             |
| 1.60 mm                        | 960         | --   | °C             |
| Glow Wire Ignition Temperature |             |      | IEC 60695-2-13 |
| 0.800 mm                       | 825         | --   | °C             |
| 1.60 mm                        | 850         | --   | °C             |
| Injection                      | Dry         | Unit |                |
| Drying Temperature             | 80.0        |      | °C             |
| Suggested Max Moisture         | 0.20        |      | %              |
| Rear Temperature               | 230 to 240  |      | °C             |
| Middle Temperature             | 240 to 250  |      | °C             |
| Front Temperature              | 240 to 255  |      | °C             |
| Mold Temperature               | 80.0 to 100 |      | °C             |

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