

# POLYfill PPH GF5035 PD2 VT

Polypropylene Homopolymer

Polykemi AB

Message:

Glass fibre-reinforced Chemically coupled/Heat resistant

| General Information                       |                                  |                   |                |
|-------------------------------------------|----------------------------------|-------------------|----------------|
| Filler / Reinforcement                    | Glass Fiber,35% Filler by Weight |                   |                |
| Features                                  | Chemically Coupled               |                   |                |
|                                           | High Heat Resistance             |                   |                |
|                                           | Homopolymer                      |                   |                |
| Physical                                  | Nominal Value                    | Unit              | Test Method    |
| Density                                   | 1.17                             | g/cm <sup>3</sup> | ISO 1183       |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 5.0                              | g/10 min          | ISO 1133       |
| Molding Shrinkage                         |                                  |                   | ISO 294-4      |
| Across Flow                               | 0.45 to 0.65                     | %                 |                |
| Flow                                      | 0.25 to 0.35                     | %                 |                |
| Mechanical                                | Nominal Value                    | Unit              | Test Method    |
| Tensile Stress                            | 90.0                             | MPa               | ISO 527-2      |
| Tensile Strain (Break)                    | 3.0                              | %                 | ISO 527-2      |
| Flexural Modulus (23°C)                   | 6000                             | MPa               | ISO 178        |
| Flexural Stress                           | 130                              | MPa               | ISO 178        |
| Impact                                    | Nominal Value                    | Unit              | Test Method    |
| Charpy Notched Impact Strength            |                                  |                   | ISO 179        |
| -20°C                                     | 5.0                              | kJ/m <sup>2</sup> |                |
| 23°C                                      | 9.0                              | kJ/m <sup>2</sup> |                |
| Thermal                                   | Nominal Value                    | Unit              | Test Method    |
| Heat Deflection Temperature <sup>1</sup>  |                                  |                   |                |
| 0.45 MPa, Unannealed                      | 160                              | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                       | 145                              | °C                | ISO 75-2/A     |
| Vicat Softening Temperature               | 130                              | °C                | ISO 306/B50    |
| Flammability                              | Nominal Value                    | Unit              | Test Method    |
| Flame Rating (1.60 mm)                    | HB                               |                   | UL 94          |
| Glow Wire Ignition Temperature (2.00 mm)  | 750                              | °C                | IEC 60695-2-13 |
| NOTE                                      |                                  |                   |                |
| 1.                                        | 120°C/hr                         |                   |                |

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