

# POLYfill PPH TS5040DS

Polypropylene Homopolymer

Polykemi AB

## Message:

Mineral reinforced Detergent resistant

| General Information                       |                              |                   |                |
|-------------------------------------------|------------------------------|-------------------|----------------|
| Filler / Reinforcement                    | Mineral,40% Filler by Weight |                   |                |
| Features                                  | Detergent Resistant          |                   |                |
| Physical                                  | Nominal Value                | Unit              | Test Method    |
| Density                                   | 1.23                         | g/cm <sup>3</sup> | ISO 1183       |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 8.0                          | g/10 min          | ISO 1133       |
| Molding Shrinkage                         |                              |                   | ISO 294-4      |
| Across Flow                               | 0.90 to 1.1                  | %                 |                |
| Flow                                      | 0.90 to 1.1                  | %                 |                |
| Mechanical                                | Nominal Value                | Unit              | Test Method    |
| Tensile Stress                            | 28.0                         | MPa               | ISO 527-2      |
| Tensile Strain                            |                              |                   | ISO 527-2      |
| Yield                                     | 5.0                          | %                 |                |
| Break                                     | 17                           | %                 |                |
| Flexural Modulus (23°C)                   | 3200                         | MPa               | ISO 178        |
| Flexural Stress                           | 54.0                         | MPa               | ISO 178        |
| Impact                                    | Nominal Value                | Unit              | Test Method    |
| Charpy Notched Impact Strength            |                              |                   | ISO 179        |
| -20°C                                     | 2.0                          | kJ/m <sup>2</sup> |                |
| 23°C                                      | 3.0                          | kJ/m <sup>2</sup> |                |
| Charpy Unnotched Impact Strength          |                              |                   | ISO 179        |
| -20°C                                     | 12                           | kJ/m <sup>2</sup> |                |
| 23°C                                      | 24                           | kJ/m <sup>2</sup> |                |
| Thermal                                   | Nominal Value                | Unit              | Test Method    |
| Heat Deflection Temperature <sup>1</sup>  |                              |                   |                |
| 0.45 MPa, Unannealed                      | 122                          | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                       | 70.0                         | °C                | ISO 75-2/A     |
| Vicat Softening Temperature               |                              |                   |                |
| --                                        | 146                          | °C                | ISO 306/A50    |
| --                                        | 84.0                         | °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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