

# POLYfill PP CPQ10015 FF

Polypropylene

Polykemi AB

Message:

Mineral reinforced

| General Information                       |                               |                   |                 |
|-------------------------------------------|-------------------------------|-------------------|-----------------|
| Filler / Reinforcement                    | Mineral, 15% Filler by Weight |                   |                 |
| Physical                                  | Nominal Value                 | Unit              | Test Method     |
| Density                                   | 1.00                          | g/cm <sup>3</sup> | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 10                            | g/10 min          | ISO 1133        |
| Molding Shrinkage                         |                               |                   | ISO 294-4       |
| Across Flow                               | 1.0 to 1.2                    | %                 |                 |
| Flow                                      | 1.0 to 1.2                    | %                 |                 |
| Mechanical                                | Nominal Value                 | Unit              | Test Method     |
| Tensile Stress                            | 21.0                          | MPa               | ISO 527-2       |
| Tensile Strain                            |                               |                   | ISO 527-2       |
| Yield                                     | 7.0                           | %                 |                 |
| Break                                     | 55                            | %                 |                 |
| Flexural Modulus (23°C)                   | 1900                          | MPa               | ISO 178         |
| Flexural Stress                           | 39.0                          | MPa               | ISO 178         |
| Scratch Resistance - 10 N Fine Structure  | 0.120                         | dL                | ISO 1518/D65    |
| Impact                                    | Nominal Value                 | Unit              | Test Method     |
| Charpy Notched Impact Strength            |                               |                   | ISO 179         |
| -20°C                                     | 5.0                           | kJ/m <sup>2</sup> |                 |
| 23°C                                      | 28                            | kJ/m <sup>2</sup> |                 |
| Charpy Unnotched Impact Strength          |                               |                   | ISO 179         |
| -20°C                                     | No Break                      |                   |                 |
| 23°C                                      | No Break                      |                   |                 |
| Thermal                                   | Nominal Value                 | Unit              | Test Method     |
| Heat Deflection Temperature <sup>1</sup>  |                               |                   |                 |
| 0.45 MPa, Unannealed                      | 124                           | °C                | ISO 75-2/B      |
| 1.8 MPa, Unannealed                       | 67.0                          | °C                | ISO 75-2/A      |
| Vicat Softening Temperature               |                               |                   |                 |
| --                                        | 140                           | °C                | ISO 306/A50     |
| --                                        | 60.0                          | °C                | ISO 306/B50     |
| CLTE - Flow                               | 5.0E-5 to 7.0E-5              | cm/cm/°C          | Internal Method |
| NOTE                                      |                               |                   |                 |
| 1.                                        | 120°C/hr                      |                   |                 |

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