

# POLYfill PP CQX30030 RTX

Polypropylene

Polykemi AB

Message:

Mineral reinforced Scratch resistant

| General Information                                   |                              |                   |                 |
|-------------------------------------------------------|------------------------------|-------------------|-----------------|
| Filler / Reinforcement                                | Mineral,30% Filler by Weight |                   |                 |
| Features                                              | Scratch Resistant            |                   |                 |
| Physical                                              | Nominal Value                | Unit              | Test Method     |
| Density                                               | 1.13                         | g/cm <sup>3</sup> | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)             | 30                           | g/10 min          | ISO 1133        |
| Molding Shrinkage                                     |                              |                   | ISO 294-4       |
| Across Flow                                           | 1.2 to 1.4                   | %                 |                 |
| Flow                                                  | 1.2 to 1.4                   | %                 |                 |
| Mechanical                                            | Nominal Value                | Unit              | Test Method     |
| Tensile Stress                                        | 19.0                         | MPa               | ISO 527-2       |
| Tensile Strain                                        |                              |                   | ISO 527-2       |
| Yield                                                 | 8.0                          | %                 |                 |
| Break                                                 | 36                           | %                 |                 |
| Flexural Modulus (23°C)                               | 1900                         | MPa               | ISO 178         |
| Flexural Stress                                       | 37.0                         | MPa               | ISO 178         |
| Scratch Resistance - 10 N Fine Structure <sup>1</sup> | < 0.100                      | dL                | ISO 1518/D65    |
| Impact                                                | Nominal Value                | Unit              | Test Method     |
| Charpy Notched Impact Strength                        |                              |                   | ISO 179         |
| -20°C                                                 | 3.0                          | kJ/m <sup>2</sup> |                 |
| 23°C                                                  | 4.0                          | kJ/m <sup>2</sup> |                 |
| Charpy Unnotched Impact Strength                      |                              |                   | ISO 179         |
| -20°C                                                 | 21                           | kJ/m <sup>2</sup> |                 |
| 23°C                                                  | 36                           | kJ/m <sup>2</sup> |                 |
| Thermal                                               | Nominal Value                | Unit              | Test Method     |
| Heat Deflection Temperature <sup>2</sup>              |                              |                   |                 |
| 0.45 MPa, Unannealed                                  | 110                          | °C                | ISO 75-2/B      |
| 1.8 MPa, Unannealed                                   | 58.0                         | °C                | ISO 75-2/A      |
| Vicat Softening Temperature                           |                              |                   |                 |
| --                                                    | 148                          | °C                | ISO 306/A50     |
| --                                                    | 75.0                         | °C                | ISO 306/B50     |
| CLTE - Flow                                           | 7.0E-5 to 9.0E-5             | cm/cm/°C          | Internal Method |
| 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.                                       | Test performed on black plaques with fine (Standex MT9078) and rough (Standex MT11435) structure |                   |
| 2.                                       | 120°C/hr                                                                                         |                   |

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