

# Data Sheet

## HMEL R03RR



R03RR (Equivalent Novolen 1102 K) is a propylene homopolymer for extrusion and thermoforming applications. The extremely low water carry-over is of special advantage in the production of tapes

### Properties (Typical Values)

| Properties                                               | Unit     | Test method | Value |
|----------------------------------------------------------|----------|-------------|-------|
| <b><u>Melt flow properties</u></b>                       |          |             |       |
| MFR 230/2.16                                             | g/10 min | ISO 1133    | 3.4   |
| <b><u>Mechanical properties</u></b>                      |          |             |       |
| Tensile modulus of elasticity (v = 1 mm/min)             | MPa      | ISO 527-2   | 1500  |
| Tensile yield stress (v = 50 mm/min)                     | MPa      | ISO 527-2   | 34    |
| Tensile yield strain (v = 50 mm/min)                     | %        | ISO 527-2   | 9     |
| Tensile strain at break (v = 50 mm/min)                  | %        | ISO 527-2   | > 50  |
| Charpy impact strength unnotched + 23 °C                 | kJ/m2    | ISO 179/1eU | 190   |
| Charpy impact strength unnotched -30 °C                  | kJ/m2    | ISO 179/1eU | 16.5  |
| Charpy impact strength notched + 23 °C                   | kJ/m2    | ISO 179/1eA | 4     |
| Charpy impact strength notched -30 °C                    | kJ/m2    | ISO 179/1eA | 1.7   |
| Ball indentation hardness (H 358/30)                     | MPa      | ISO 2039-1  | 74    |
| <b><u>Thermal properties</u></b>                         |          |             |       |
| Melting point, DSC                                       | °C       | ISO 3146    | 163   |
| Heat deflection temperature                              |          |             | 0     |
| - HDT/A (1.8 MPa)                                        | °C       | ISO 75-2    | 55    |
| - HDT/B (0.45 MPa)                                       | °C       | ISO 75-2    | 85    |
| Vicat softening temperature                              |          |             | 0     |
| - VST/A50 (10 N)                                         | °C       | ISO 306     | 154   |
| - VST/B50 (50 N)                                         | °C       | ISO 306     | 90    |
| <b><u>Other properties</u></b>                           |          |             |       |
| Density                                                  | g/cm3    | ISO 1183    | 0.91  |
| <b><u>Applications</u></b>                               |          |             |       |
| Thermoformed parts, Tape yarns, Monofilaments, Strapping |          |             |       |

"The information in this publication is submitted without prejudice, and is based on our current knowledge and experience and on a limited number of tests.

In view of the many factors that may affect processing and application, these data do not relieve the receiver of this information from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose of the products made with or on the basis of the information in this publication."