

# TRANSMARE® 10HGB30-0.001

Polypropylene Homopolymer

Transmare Compounding B.V.

Message:

TRANSMARE® 10HGB30-0.001 is a 30% chemically coupled glass beads filled polypropylene homopolymer.

| General Information                       |                                 |                   |              |
|-------------------------------------------|---------------------------------|-------------------|--------------|
| Filler / Reinforcement                    | Glass Bead,30% Filler by Weight |                   |              |
| Features                                  | Chemically Coupled              |                   |              |
|                                           | Homopolymer                     |                   |              |
|                                           | Recyclable Material             |                   |              |
| Forms                                     | Pellets                         |                   |              |
| Processing Method                         | Injection Molding               |                   |              |
| Physical                                  | Nominal Value                   | Unit              | Test Method  |
| Density                                   | 1.10                            | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 7.0                             | g/10 min          | ISO 1133     |
| Hardness                                  | Nominal Value                   | Unit              | Test Method  |
| Shore Hardness (Shore D)                  | 78                              |                   | ISO 868      |
| Mechanical                                | Nominal Value                   | Unit              | Test Method  |
| Tensile Modulus (4.00 mm)                 | 2300                            | MPa               | ISO 527-2/1  |
| Tensile Stress                            |                                 |                   | ISO 527-2/50 |
| Yield, 4.00 mm                            | 30.0                            | MPa               |              |
| Break, 4.00 mm                            | 28.0                            | MPa               |              |
| Tensile Strain                            |                                 |                   | ISO 527-2/50 |
| Yield, 4.00 mm                            | 3.7                             | %                 |              |
| Break, 4.00 mm                            | 7.2                             | %                 |              |
| Flexural Modulus                          | 2100                            | MPa               | ISO 178      |
| Flexural Stress                           | 45.0                            | MPa               | ISO 178      |
| Impact                                    | Nominal Value                   | Unit              | Test Method  |
| Charpy Notched Impact Strength            |                                 |                   | ISO 179/1A   |
| -40°C                                     | 1.2                             | kJ/m <sup>2</sup> |              |
| 23°C                                      | 2.1                             | kJ/m <sup>2</sup> |              |
| Charpy Unnotched Impact Strength          |                                 |                   | ISO 179/1U   |
| -40°C                                     | 13                              | kJ/m <sup>2</sup> |              |
| 23°C                                      | 27                              | kJ/m <sup>2</sup> |              |
| Notched Izod Impact Strength              |                                 |                   | ISO 180/1A   |
| -40°C                                     | 2.1                             | kJ/m <sup>2</sup> |              |
| 23°C                                      | 2.5                             | kJ/m <sup>2</sup> |              |

| Unnotched Izod Impact Strength |               |                   | ISO 180/1U  |
|--------------------------------|---------------|-------------------|-------------|
| -40°C                          | 12            | kJ/m <sup>2</sup> |             |
| 23°C                           | 22            | kJ/m <sup>2</sup> |             |
| Thermal                        | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature    |               |                   |             |
| 0.45 MPa, Unannealed           | 91.0          | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed            | 51.0          | °C                | ISO 75-2/A  |
| Vicat Softening Temperature    | 155           | °C                | ISO 306/A   |
| Injection                      | Nominal Value | Unit              |             |
| Suggested Max Moisture         | < 0.20        | %                 |             |
| Rear Temperature               | 170           | °C                |             |
| Middle Temperature             | 230           | °C                |             |
| Front Temperature              | 240           | °C                |             |
| Nozzle Temperature             | 250           | °C                |             |
| Mold Temperature               | 40.0 to 60.0  | °C                |             |
| Injection Rate                 | Slow-Moderate |                   |             |

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