

# TRANSMARE® 10HT20-0.001

Polypropylene Homopolymer

Transmare Compounding B.V.

## Message:

TRANSMARE® 10HT20-0.001 is a 20% fine white talc filled polypropylene homopolymer. It combines a high stiffness with good flow properties. Suitable for (light) coloring.

| General Information                       |                           |                   |              |
|-------------------------------------------|---------------------------|-------------------|--------------|
| Filler / Reinforcement                    | Talc,20% Filler by Volume |                   |              |
| Features                                  | Good Flow                 |                   |              |
|                                           | High Stiffness            |                   |              |
|                                           | Homopolymer               |                   |              |
|                                           | Recyclable Material       |                   |              |
| Appearance                                | White                     |                   |              |
| Forms                                     | Pellets                   |                   |              |
| Processing Method                         | Injection Molding         |                   |              |
| Physical                                  | Nominal Value             | Unit              | Test Method  |
| Density                                   | 1.05                      | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 10                        | g/10 min          | ISO 1133     |
| Hardness                                  | Nominal Value             | Unit              | Test Method  |
| Shore Hardness (Shore D)                  | 70                        |                   | ISO 868      |
| Mechanical                                | Nominal Value             | Unit              | Test Method  |
| Tensile Modulus (4.00 mm)                 | 2800                      | MPa               | ISO 527-2/1  |
| Tensile Stress                            |                           |                   | ISO 527-2/50 |
| Yield, 4.00 mm                            | 33.0                      | MPa               |              |
| Break, 4.00 mm                            | 27.0                      | MPa               |              |
| Tensile Strain                            |                           |                   | ISO 527-2/50 |
| Yield, 4.00 mm                            | 4.2                       | %                 |              |
| Break, 4.00 mm                            | 17                        | %                 |              |
| Flexural Modulus                          | 2900                      | MPa               | ISO 178      |
| Flexural Stress                           | 56.0                      | MPa               | ISO 178      |
| Impact                                    | Nominal Value             | Unit              | Test Method  |
| Charpy Notched Impact Strength            |                           |                   | ISO 179/1A   |
| -40°C                                     | 1.1                       | kJ/m <sup>2</sup> |              |
| 23°C                                      | 2.1                       | kJ/m <sup>2</sup> |              |
| Charpy Unnotched Impact Strength          |                           |                   | ISO 179/1U   |
| -40°C                                     | 14                        | kJ/m <sup>2</sup> |              |
| 23°C                                      | 35                        | kJ/m <sup>2</sup> |              |
| Notched Izod Impact Strength (23°C)       | 2.5                       | kJ/m <sup>2</sup> | ISO 180/1A   |

| Unnotched Izod Impact Strength (23°C) | 28            | kJ/m <sup>2</sup> | ISO 180/1U  |
|---------------------------------------|---------------|-------------------|-------------|
| Thermal                               | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature           |               |                   |             |
| 0.45 MPa, Unannealed                  | 115           | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                   | 62.0          | °C                | ISO 75-2/A  |
| Vicat Softening Temperature           | 157           | °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                        | Moderate-Fast |                   |             |

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