

# TRANSMARE® 5CGF30

Polypropylene Copolymer

Transmare Compounding B.V.

## Message:

TRANSMARE® 5CGF30 is a copolymer polypropylene filled with 30% of glass fibres. It combines a high impact at low temperatures with a high stiffness.

| General Information                         |  |                        |                 |
|---|--|------------------------|-----------------|
| Filler / Reinforcement                      | Glass Fiber,30% Filler by Volume   |                        |                 |
| Features                                    | Copolymer<br>High Impact Resistance<br>High Stiffness<br>Low Temperature Impact Resistance |                        |                 |
| Forms                                       | Pellets  |                        |                 |
| Processing Method                           | Injection Molding  |                        |                 |
| Physical                                    | Nominal Value  | Unit                   | Test Method     |
| Density                                     | 1.11   | g/cm <sup>3</sup>      | ISO 1183        |
| Melt Mass-Flow Rate (MFR)                   |  |                        | ISO 1133        |
| 230°C/10.0 kg                               | 22   | g/10 min               |                 |
| 230°C/2.16 kg                               | 1.4  | g/10 min               |                 |
| Melt Volume-Flow Rate (MVR) (230°C/2.16 kg) | 1.50   | cm <sup>3</sup> /10min | ISO 1133        |
| Moisture Content <sup>1</sup>               | < 0.20   | %                      | Internal Method |
| Hardness                                    | Nominal Value  | Unit                   | Test Method     |
| Shore Hardness (Shore D)                    | 70   |                        | ISO 868         |
| Mechanical                                  | Nominal Value  | Unit                   | Test Method     |
| Tensile Modulus (4.00 mm)                   | 5420   | MPa                    | ISO 527-2/1     |
| Tensile Stress                              |  |                        |                 |
| Yield, 4.00 mm                              | 71.0   | MPa                    | ISO 527-2/50    |
| Break, 4.00 mm                              | 71.0   | MPa                    | ISO 527-2/50    |
| -- <sup>2</sup>                             | 71.0   | MPa                    | ISO 527-2       |
| Tensile Strain                              |  |                        | ISO 527-2/50    |
| Yield, 4.00 mm                              | 5.0  | %                      |                 |
| Break, 4.00 mm                              | 6.0  | %                      |                 |
| Impact                                      | Nominal Value  | Unit                   | Test Method     |
| Charpy Notched Impact Strength              |  |                        | ISO 179/A       |
| -40°C                                       | 9.0  | kJ/m <sup>2</sup>      |                 |
| -20°C                                       | 11   | kJ/m <sup>2</sup>      |                 |
| 0°C   | 12   | kJ/m <sup>2</sup>      |                 |
| 23°C  | 19   | kJ/m <sup>2</sup>      |                 |

| Notched Izod Impact Strength |    |                   | ISO 180/A |
|------------------------------|----|-------------------|-----------|
| -40°C                        | 12 | kJ/m <sup>2</sup> |           |
| -20°C                        | 14 | kJ/m <sup>2</sup> |           |
| 0°C                          | 16 | kJ/m <sup>2</sup> |           |
| 23°C                         | 19 | kJ/m <sup>2</sup> |           |

| Flammability | Nominal Value | Unit   | Test Method |
|--------------|---------------|--------|-------------|
| Burning Rate | < 100         | mm/min | FMVSS 302   |

| NOTE |               |
|------|---------------|
| 1.   | Halogen dryer |
| 2.   | Maximum       |

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