



# STAMAX™ 30YM241

PP LGF REINFORCED

## DESCRIPTION

STAMAX™ 30YM241 is a high heat resistant 30% long glass fiber reinforced grade. The glass fibres are chemically coupled to the PP matrix, resulting in high stiffness and strength.

IMDS ID: 127597533

## TYPICAL PROPERTY VALUES

Revision 20211008

| PROPERTIES                           | TYPICAL VALUES | UNITS             | TEST METHODS |
|--------------------------------------|----------------|-------------------|--------------|
| POLYMER PROPERTIES                   |                |                   |              |
| Density                              | 1120           | kg/m <sup>3</sup> | ISO 1183     |
| Glass fibre content                  | 30             | %                 | ISO 3451     |
| MECHANICAL PROPERTIES <sup>(1)</sup> |                |                   |              |
| Tensile modulus                      |                |                   |              |
| at 23 °C                             | 6600           | MPa               | ISO 527/1A   |
| at 80 °C                             | 4500           | MPa               | ISO 527/1A   |
| Tensile strength                     |                |                   |              |
| at 23 °C                             | 105            | MPa               | ISO 527/1A   |
| at 80 °C                             | 60             | MPa               | ISO 527/1A   |
| Tensile elongation at break          |                |                   |              |
| at 23 °C                             | 2.3            | %                 | ISO 527/1A   |
| Flexural Modulus                     |                |                   |              |
| at 23 °C                             | 6400           | MPa               | ISO 178      |
| at 80 °C                             | 4600           | MPa               | ISO 178      |
| Flexural strength                    |                |                   |              |
| at 23 °C                             | 160            | MPa               | ISO 178      |
| at 80 °C                             | 95             | MPa               | ISO 178      |
| Charpy Impact Strength Notched       |                |                   |              |
| at 23 °C                             | 20             | kJ/m <sup>2</sup> | ISO 179/1eA  |
| at -30 °C                            | 27             | kJ/m <sup>2</sup> | ISO 179/1eA  |
| Charpy impact unnotched              |                |                   |              |
| at 23 °C                             | 60             | kJ/m <sup>2</sup> | ISO 179/1eU  |
| at -30 °C                            | 40             | kJ/m <sup>2</sup> | ISO 179/1eU  |
| THERMAL PROPERTIES                   |                |                   |              |
| Heat deflection temperature          |                |                   |              |
| at 1.80 MPa (HDT/A)                  | 158            | °C                | ISO 75/A     |
| Coeff. of linear thermal expansion   |                |                   |              |
| -30 °C to 100 °C                     | 44             | µm/mK             | ISO 11359-2  |

(1) All measurements on injection molded samples.



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