

# STAMAX™ 30YK270E

PP LGF REINFORCED IMPACT MODIFIED

## DESCRIPTION

STAMAX™ 30YK270E is a 30% long glass fiber reinforced low emission grade with improved impact and flow properties. The glass fibres are chemically coupled to the PP matrix, resulting in high stiffness and strength.

IMDS ID: 80929807

## TYPICAL PROPERTY VALUES

| PROPERTIES                                  | TYPICAL VALUES | UNITS             | TEST METHODS |
|---------------------------------------------|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>                   |                |                   |              |
| Density                                     | 1120           | kg/m <sup>3</sup> | ISO 1183     |
| Glass fibre content                         | 30             | %                 | ISO 3451     |
| <b>MECHANICAL PROPERTIES <sup>(1)</sup></b> |                |                   |              |
| <b>Tensile modulus</b>                      |                |                   |              |
| at 23 °C                                    | 6200           | MPa               | ISO 527/1A   |
| at 80 °C                                    | 4400           | MPa               | ISO 527/1A   |
| <b>Tensile strength</b>                     |                |                   |              |
| at 23 °C                                    | 100            | MPa               | ISO 527/1A   |
| at 80 °C                                    | 55             | MPa               | ISO 527/1A   |
| <b>Tensile elongation at break</b>          |                |                   |              |
| at 23 °C                                    | 2.4            | %                 | ISO 527/1A   |
| <b>Flexural Modulus</b>                     |                |                   |              |
| at 23 °C                                    | 6000           | MPa               | ISO 178      |
| at 80 °C                                    | 4000           | MPa               | ISO 178      |
| <b>Flexural strength</b>                    |                |                   |              |
| at 23 °C                                    | 150            | MPa               | ISO 178      |
| at 80 °C                                    | 75             | MPa               | ISO 178      |
| <b>Charpy Impact Strength Notched</b>       |                |                   |              |
| at 23 °C                                    | 28             | kJ/m <sup>2</sup> | ISO 179/1eA  |
| at -30 °C                                   | 28             | kJ/m <sup>2</sup> | ISO 179/1eA  |
| <b>Charpy impact unnotched</b>              |                |                   |              |
| at 23 °C                                    | 60             | kJ/m <sup>2</sup> | ISO 179/1eU  |
| at -30 °C                                   | 75             | kJ/m <sup>2</sup> | ISO 179/1eU  |
| <b>THERMAL PROPERTIES</b>                   |                |                   |              |
| <b>Heat deflection temperature</b>          |                |                   |              |
| at 1.80 MPa (HDT/A)                         | 158            | °C                | ISO 75/A     |
| <b>Coeff. of linear thermal expansion</b>   |                |                   |              |
| -30 °C to 100 °C                            | 40             | µm/mK             | ISO 11359-2  |

(1) All measurements on injection molded samples.

