



## SABIC® STAMAX 30YM240

PP LGF reinforced for Automotive injection moulding

### Description:

SABIC® STAMAX 30YM240 is a 30% long glass fiber reinforced grade. The glass fibres are chemically coupled to the PP matrix, resulting in high stiffness and strength.

IMDS ID: 16496906

### Typical values

Revision 20140908

| Properties                                 | Unit (SI)         | Values      | Testmethods |
|--------------------------------------------|-------------------|-------------|-------------|
| <b>Polymer properties</b>                  |                   |             |             |
| <b>Density</b>                             | kg/m <sup>3</sup> | <b>1120</b> | ISO 1183    |
| <b>Glass fibre content</b>                 | %                 | <b>30</b>   | ISO 3451    |
| <b>Coeff. of linear thermal expansion</b>  |                   |             | ASTM D 696  |
| 23 °C to 80 °C                             | µm/mK             | <b>41</b>   |             |
| -30 °C to 30 °C                            | µm/mK             | <b>51</b>   |             |
| <b>Mechanical properties</b> <sup>1)</sup> |                   |             |             |
| <b>Tensile modulus</b>                     |                   |             | ISO 527/1B  |
| at 23 °C                                   | MPa               | <b>6650</b> |             |
| at 80 °C                                   | MPa               | <b>4600</b> |             |
| at 120 °C                                  | MPa               | <b>3500</b> |             |
| <b>Tensile strength</b>                    |                   |             | ISO 527/1B  |
| at 23 °C                                   | MPa               | <b>110</b>  |             |
| at 80 °C                                   | MPa               | <b>70</b>   |             |
| at 120 °C                                  | MPa               | <b>51</b>   |             |
| <b>Tensile elongation at break</b>         |                   |             | ISO 527/1B  |
| at 23 °C                                   | %                 | <b>2,3</b>  |             |
| <b>Flexural modulus</b>                    |                   |             | ISO 178     |
| at 23 °C                                   | MPa               | <b>5900</b> |             |
| at 80 °C                                   | MPa               | <b>4200</b> |             |
| <b>Flexural strength</b>                   |                   |             | ISO 178     |
| at 23 °C                                   | MPa               | <b>147</b>  |             |
| at 80 °C                                   | MPa               | <b>86</b>   |             |
| <b>Charpy impact notched</b>               |                   |             | ISO 179/1eA |
| at 23 °C                                   | kJ/m <sup>2</sup> | <b>19</b>   |             |
| at -30 °C                                  | kJ/m <sup>2</sup> | <b>25</b>   |             |
| <b>Charpy impact unnotched</b>             |                   |             | ISO 179/1eU |
| at 23 °C                                   | kJ/m <sup>2</sup> | <b>52</b>   |             |
| at -30 °C                                  | kJ/m <sup>2</sup> | <b>36</b>   |             |
| <b>Falling dart</b>                        |                   |             | ISO 6603-2  |
| total energy at 23 °C                      | J/mm              | <b>5,8</b>  |             |
| total energy at -40 °C                     | J/mm              | <b>-</b>    |             |
| <b>Thermal properties</b>                  |                   |             |             |
| <b>Heat deflection temperature</b>         |                   |             | ISO 75/A    |
| at 1.80 MPa (HDT/A)                        | °C                | <b>156</b>  |             |

1) All measurements on injection molded samples.



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