



STAMAX™ 30YH611

FR PP LGF REINFORCED

DESCRIPTION

STAMAX™ 30YH611 is a low flow, halogen free flame retardant, Polypropylene reinforced with 30% long glass fiber, developed for extruded and thermoformed applications. The glass fibres are chemically coupled to the PP matrix, resulting in high stiffness and strength. This material has been designed to combine a good performance profile with good processing.

STAMAX™ 30YH611 should be dried at 100C for 2 hours before processing.

TYPICAL PROPERTY VALUES

Revision 20230811

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Density | 1310 | kg/m ³ | ISO 1183 |
| Glass fibre content | 30 | % | ISO 3451 |
| MECHANICAL PROPERTIES ⁽¹⁾ | | | |
| Tensile modulus | | | |
| at 23 °C | 8100 | MPa | ISO 527/1A |
| at 80 °C | 5000 | MPa | ISO 527/1A |
| Tensile strength | | | |
| at 23 °C | 90 | MPa | ISO 527/1A |
| at 80 °C | 50 | MPa | ISO 527/1A |
| Tensile elongation at break | | | |
| at 23 °C | 2.5 | % | ISO 527/1A |
| Flexural Modulus | | | |
| at 23 °C | 8850 | MPa | ISO 178 |
| at 80 °C | 5700 | MPa | ISO 178 |
| Flexural strength | | | |
| at 23 °C | 165 | MPa | ISO 178 |
| at 80 °C | 90 | MPa | ISO 178 |
| Charpy Impact Strength Notched | | | |
| at 23 °C | 17 | kJ/m ² | ISO 179/1eA |
| at -30 °C | 16 | kJ/m ² | ISO 179/1eA |
| Charpy impact unnotched | | | |
| at 23 °C | 50 | kJ/m ² | ISO 179/1eU |
| at -30 °C | 50 | kJ/m ² | ISO 179/1eU |
| THERMAL PROPERTIES | | | |
| Heat deflection temperature | | | |
| at 1.80 MPa (HDT/A) | 150 | °C | ISO 75/A |
| Coeff. of linear thermal expansion | | | |
| -30 °C to 100 °C | 46 | µm/mK | ISO 11359-2 |
| FLAMMABILITY PROPERTIES | | | |
| Comparative Tracking Index | | | |
| | 600 | V | IEC 60112 |
| UL94 | | | |
| Lowest thickness for V0 | 1.0 | mm | UL 94 |



(1) All measurements on injection molded samples.

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