

## STAMAX™ 30YH515

FR PP LGF REINFORCED

### DESCRIPTION

STAMAX™ 30YH515 is a high flow, halogen free flame retardant, copolymer reinforced with 30% long glass fiber, specially developed for electrical & electronic injection molded applications. This material has been designed to combine a good performance profile with good processing.

SABIC STAMAX™ 30YH515 is a designated injection molded grade for electrical applications. STAMAX™ 30YH515 should be dried at 100°C for 2 hours before the injection molding.

### TYPICAL PROPERTY VALUES

Revision 20240112

| PROPERTIES                                            | TYPICAL VALUES | UNITS | TEST METHODS   |
|-------------------------------------------------------|----------------|-------|----------------|
| <strong>POLYMER PROPERTIES</strong>                   |                |       |                |
| Density                                               | 1270           | kg/m³ | ISO 1183       |
| Glass fibre content                                   | 30             | %     | ISO 3451       |
| <strong>MECHANICAL PROPERTIES <sup>(1)</sup></strong> |                |       |                |
| <strong>Tensile modulus</strong>                      |                |       |                |
| at 23 °C                                              | 7600           | MPa   | ISO 527/1A     |
| at 80 °C                                              | 4600           | MPa   | ISO 527/1A     |
| <strong>Tensile elongation at break</strong>          |                |       |                |
| at 23 °C                                              | 2.5            | %     | ISO 527/1A     |
| <strong>Flexural Modulus</strong>                     |                |       |                |
| at 23 °C                                              | 7000           | MPa   | ISO 178        |
| at 80 °C                                              | 4600           | MPa   | ISO 178        |
| <strong>Flexural strength</strong>                    |                |       |                |
| at 23 °C                                              | 130            | MPa   | ISO 178        |
| at 80 °C                                              | 60             | MPa   | ISO 178        |
| <strong>Charpy Impact Strength Notched</strong>       |                |       |                |
| at 23 °C                                              | 15             | kJ/m² | ISO 179/1eA    |
| at -30 °C                                             | 13             | kJ/m² | ISO 179/1eA    |
| <strong>Charpy impact unnotched</strong>              |                |       |                |
| at 23 °C                                              | 45             | kJ/m² | ISO 179/1eU    |
| at -30 °C                                             | 44             | kJ/m² | ISO 179/1eU    |
| <strong>THERMAL PROPERTIES</strong>                   |                |       |                |
| <strong>Heat deflection temperature</strong>          |                |       |                |
| at 1.80 MPa (HDT/A)                                   | 155            | °C    | ISO 75/A       |
| <strong>Coeff. of linear thermal expansion</strong>   |                |       |                |
| -30 °C to 100 °C                                      | 55             | µm/mK | ISO 11359-2    |
| <strong>FLAMMABILITY PROPERTIES</strong>              |                |       |                |
| UL Yellow Card Link                                   | E111275        | -     |                |
| Comparative Tracking Index                            | 600            | V     | IEC 60112      |
| UL94                                                  |                |       |                |
| Lowest thickness for V0                               | 1.5            | mm    | UL 94          |
| <strong>GWFI</strong>                                 |                |       |                |
| at 0.8mm                                              | 750            | °C    | IEC 60695-2-12 |

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CHEMISTRY THAT MATTERS™



| PROPERTIES  | TYPICAL VALUES | UNITS | TEST METHODS   |
|-------------|----------------|-------|----------------|
| at 1.6mm    | 960            | °C    | IEC 60695-2-12 |
| <b>GWIT</b> |                |       |                |
| at 0.8mm    | 650            | °C    | IEC 60695-2-13 |

(1) All measurements on injection molded samples.

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