

SABIC® PPcompound H1130

FLAME RETARDANT GLASS FIBER REINFORCED POLYPROPYLENE

DESCRIPTION

SABIC® PPcompound H1130 is a high flow, halogen free flame retardant, copolymer with 30% glass fiber, developed for electrical & electronic injection molded applications. This material has been designed to combine a good performance profile with good processing.

IMDS ID: 881333679
UL Yellow Card: E111275

TYPICAL PROPERTY VALUES

Revision 20230801

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------|----------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 230 °C and 2.16 kg | 7.5 | dg/min | ISO 1133 |
| Density ⁽¹⁾ | 1200 | kg/m ³ | ISO 1183 |
| Filler content | 30 | % | SABIC method |
| Mould shrinkage ⁽²⁾ | | | |
| 24 hours after injection moulding | 0.7 | % | SABIC method |
| MECHANICAL PROPERTIES ^{(1) (3)} | | | |
| Tensile | | | |
| Tensile modulus | 7300 | MPa | ISO 527/1A |
| stress at yield | 75 | MPa | ISO 527/1A |
| stress at break | 73 | MPa | ISO 527/1A |
| strain at break | 3.1 | % | ISO 527/1A |
| Flexural test | | | |
| Flexural modulus | 7600 | MPa | ISO 178/1A |
| Izod impact notched ^{(1) (3)} | | | |
| at 23 °C | 9.9 | kJ/m ² | ISO 180/1A |
| THERMAL PROPERTIES | | | |
| Heat deflection temperature | | | |
| at 1.8 MPa (HDT/A) ⁽¹⁾ | 144 | °C | ISO 75 |
| at 0.45 MPa (HDT/B) ⁽¹⁾ | 158 | °C | ISO 75 |
| Coeff. of linear thermal expansion | | | |
| -30 °C to 100°C | 48.5 | µm/mK | ISO 11359-2 |
| FLAMMABILITY PROPERTIES | | | |
| Comparative Tracking Index | 600 | V | IEC 60112 |
| UL94 | | | |
| Lowest thickness for VO | 1.7 | mm | UL 94 |
| GWFI | | | |
| at 1.6 mm | 960 | °C | IEC 60695-2-13 |
| GWIT | | | |
| at 0.8 mm | 800 | °C | IEC 60695-2-13 |

- (1) Injection molded sample ISO527-1A
- (2) Injection molded plaque 65x65x3.2mm
- (3) N.B.: No Break

STORAGE AND HANDLING

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and/or high humidity as this could well speed up alteration and consequently loss of quality of the material and/or its packaging. Keep material completely dry for good processing.

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