

SABIC® PPCOMPOUND H1300

FLAME RETARDANT POLYPROPYLENE

DESCRIPTION

SABIC® PPcompound H1300 is a halogen free flame retardant, non-filled Polypropylene compounds. It has a UL94 V0@ 0.8mm flame rating. This material has been designed to combine a good performance profile with good processing and FR characteristics.

IMDS ID:1177797571

UL Yellow Card: E140737

TYPICAL PROPERTY VALUES

Revision 20230804

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|--------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 230 °C and 2.16 kg | 13 | dg/min | ISO 1133 |
| Density ⁽¹⁾ | 1022 | kg/m³ | ISO 1183 |
| Filler content | 0 | % | SABIC method |
| Mould shrinkage ⁽²⁾ | | | |
| 24 hours after injection moulding | 1.2 | % | SABIC method |
| MECHANICAL PROPERTIES ^{(1) (3)} | | | |
| Tensile | | | |
| Tensile modulus | 1680 | MPa | ISO 527/1A |
| stress at yield | 17 | MPa | ISO 527/1A |
| stress at break | 14 | MPa | ISO 527/1A |
| strain at break | 50 | % | ISO 527/1A |
| Flexural test | | | |
| Flexural modulus | 1650 | MPa | ISO 178/1A |
| Izod impact notched ^{(1) (3)} | | | |
| at 23 °C | 5 | kJ/m² | ISO 180/1A |
| at 0 °C | 3 | kJ/m² | ISO 180/1A |
| at -20 °C | 2 | kJ/m² | ISO 180/1A |
| THERMAL PROPERTIES | | | |
| Heat deflection temperature | | | |
| at 1.8 MPa (HDT/A) ⁽¹⁾ | 100 | °C | ISO 75 |
| at 0.45 MPa (HDT/B) ⁽¹⁾ | 60 | °C | ISO 75 |
| Coeff. of linear thermal expansion | | | |
| -30 °C to 100°C | | µm/mK | ISO 11359-2 |
| FLAMMABILITY PROPERTIES | | | |
| Comparative Tracking Index | | | |
| | 600 | V | IEC 60112 |
| UL94 | | | |
| Lowest thickness for V0 | 0.8 | mm | UL 94 |

(1) Injection molded sample ISO527-1A

(2) Injection molded plaque 65x65x3.2mm

(3) N.B.: No Break

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CHEMISTRY THAT MATTERS™





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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