



SABIC® PPCOMPOUND H1200

FLAME RETARDANT POLYPROPYLENE

DESCRIPTION

SABIC® PPcompound H1200 is a high impact, halogen free flame retardant, non mineral filled Polypropylene compound. It has a UL94 V0@ 2mm flame rating. This material has been designed to combine a good performance profile with good processing and FR characteristics.

Melt temperature of 240 °C should not be exceeded during processing.

IMDS ID:1062970462

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⁾ | 990 | 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 | 980 | MPa | ISO 527/1A |
| stress at yield | 15 | MPa | ISO 527/1A |
| stress at break | 11 | MPa | ISO 527/1A |
| strain at break | 19 | % | ISO 527/1A |
| Flexural test | | | |
| Flexural modulus | 1000 | MPa | ISO 178/1A |
| Izod impact notched ^{(1) (3)} | | | |
| at 23 °C | 13 | kJ/m² | ISO 180/1A |
| at 0 °C | 5 | kJ/m² | ISO 180/1A |
| at -20 °C | 4 | kJ/m² | ISO 180/1A |
| THERMAL PROPERTIES | | | |
| Heat deflection temperature | | | |
| at 1.8 MPa (HDT/A) ⁽¹⁾ | 48 | °C | ISO 75 |
| at 0.45 MPa (HDT/B) ⁽¹⁾ | 85 | °C | ISO 75 |
| Coeff. of linear thermal expansion | | | |
| -30 °C to 100 °C | 130 | µm/mK | ISO 11359-2 |
| FLAMMABILITY PROPERTIES | | | |
| Comparative Tracking Index | | | |
| | 600 | V | IEC 60112 |
| UL94 | | | |
| Lowest thickness for V0 | 2.0 | mm | UL 94 |
| CWIT | | | |
| at 0.8 mm | 650 | °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.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.