



# SABIC® PPCOMPOUND H1090

FLAME RETARDANT GLASS FIBER REINFORCED POLYPROPYLENE

## DESCRIPTION

SABIC® PPcompound H1090 is a low flow, halogen free flame retardant, Polypropylene reinforced with 30% short glass fibers, developed for extruded and thermoformed applications. It has a UL94V0@1.5mm. This material has been designed to combine a good performance profile with good processing and FR characteristics.

IMDS ID:1157471544

## TYPICAL PROPERTY VALUES

Revision 20230801

| PROPERTIES                                      | TYPICAL VALUES | UNITS  | TEST METHODS   |
|---|----------------|--------|----------------|
| <b>POLYMER PROPERTIES</b>                       |                |        |                |
| <b>Melt Flow Rate (MFR)</b>                     |                |        |                |
| at 230 °C and 2.16 kg                           | 2              | dg/min | ISO 1133       |
| <b>Density</b> <sup>(1)</sup>                   | 1300           | kg/m³  | ISO 1183       |
| <b>Filler content</b>                           | 30             | %      | SABIC method   |
| <b>MECHANICAL PROPERTIES</b> <sup>(1) (2)</sup> |                |        |                |
| <b>Tensile</b>                                  |                |        |                |
| Tensile modulus                                 | 8300           | MPa    | ISO 527/1A     |
| stress at yield                                 | 95             | MPa    | ISO 527/1A     |
| strain at break                                 | 2.6            | %      | ISO 527/1A     |
| <b>Flexural test</b>                            |                |        |                |
| Flexural modulus                                | 8330           | MPa    | ISO 178/1A     |
| <b>THERMAL PROPERTIES</b>                       |                |        |                |
| <b>Heat deflection temperature</b>              |                |        |                |
| at 1.8 MPa (HDT/A) <sup>(1)</sup>               | 150            | °C     | ISO 75         |
| <b>Coeff. of linear thermal expansion</b>       |                |        |                |
| -30 °C to 100°C                                 | 42             | µm/mK  | ISO 11359-2    |
| <b>FLAMMABILITY PROPERTIES</b>                  |                |        |                |
| <b>Comparative Tracking Index</b>               |                |        |                |
|   | 600            | V      | IEC 60112      |
| <b>UL94</b>                                     |                |        |                |
| Lowest thickness V0                             | 1.5            | mm     | UL 94          |
| <b>GWFI</b>                                     |                |        |                |
| at 1.6 mm                                       | 700            | °C     | IEC 60695-2-13 |

(1) Injection molded sample ISO527-1A

(2) 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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