



# SABIC<sup>®</sup> PP G1620B

## POLYPROPYLENE COMPOUND

### DESCRIPTION

SABIC<sup>®</sup> PPcompound G1620B is a low flow PP random co-polymer with glass fibers for multi-layer PPR-GF composite pipe applications. This material has been designed to combine a good performance properties with good processing and excellent surface esthetics.

SABIC<sup>®</sup> PPcompound G1620B is a designated pipe grade.

### TYPICAL APPLICATIONS

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### TYPICAL PROPERTY VALUES

Revision 20181012

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
<b>Flexural Modulus</b> <sup>(1)</sup>	3000	MPa	ISO 178
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 230 °C and 2.16 kg <sup>(1)</sup>	1	g/10 min	ISO 1133
<b>Density</b>	1030	kg/m <sup>3</sup>	ASTM D1505
<b>Filler content</b>	20	%	SABIC method
<b>Mould shrinkage</b> <sup>(2)</sup>			
24 hours after injection moulding <sup>(2)</sup>	0.9 – 1.0	%	SABIC method
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
Tensile modulus	3250	MPa	ISO 527/1A
tensile strength	55	MPa	ISO 527/1A
stress at break	54	MPa	ISO 527/1A
strain at break	5.5	MPa	ISO 527/1A
<b>Izod impact notched</b>			
at 23 °C	12.5	kJ/m <sup>2</sup>	ISO 180/1A
at 0 °C	9	kJ/m <sup>2</sup>	ISO 180/1A
at -20 °C	7	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature</b>			
HDT A (at 1.8 MPa)	108	°C	ISO 75 (flatwise)
HDT B (at 0.45 MPa)	137	°C	ISO 75 (flatwise)
<b>Coeff. of linear thermal expansion</b>			
CLTE -30 °C to 80 °C	74	µm/mK	ASTM D696

(1) Injection molded sample ISO527-1A.

(2) Injection molded plaque 65x65x3.2 mm



## STORAGE AND HANDLING

PP resin should be stored to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PP resin within 6 months after delivery. Detailed information is provided in the relevant Material Safety Data Sheet (MSDS).

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