



SABIC[®] PP G1620B

POLYPROPYLENE COMPOUND

DESCRIPTION

SABIC[®] 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[®] PPcompound G1620B is a designated pipe grade.

TYPICAL APPLICATIONS

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TYPICAL PROPERTY VALUES

Revision 20181012

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Flexural Modulus ⁽¹⁾	3000	MPa	ISO 178
POLYMER PROPERTIES			
Melt Flow Rate			
at 230 °C and 2.16 kg ⁽¹⁾	1	g/10 min	ISO 1133
Density	1030	kg/m ³	ASTM D1505
Filler content	20	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding ⁽²⁾	0.9 – 1.0	%	SABIC method
MECHANICAL PROPERTIES			
Tensile test			
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
Izod impact notched			
at 23 °C	12.5	kJ/m ²	ISO 180/1A
at 0 °C	9	kJ/m ²	ISO 180/1A
at -20 °C	7	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
Heat deflection temperature			
HDT A (at 1.8 MPa)	108	°C	ISO 75 (flatwise)
HDT B (at 0.45 MPa)	137	°C	ISO 75 (flatwise)
Coeff. of linear thermal expansion			
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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