

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

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

