



SABIC® PPCOMPOUND H1020

FLAME RETARDANT GLASS FIBER REINFORCED POLYPROPYLENE

DESCRIPTION

SABIC® PPcompound H1020 is a good flow, halogen free flame retardant, homopolymer with 20% glass fiber, developed for Automotive and electric injection molded applications. This material has been designed to combine a good performance profile with good processing.

SABIC®PPcompound H1020 should be dried at 100°C for 2 hours before the injection molding.

IMDS ID:1043303341

UL Yellow Card: E111275

TYPICAL PROPERTY VALUES

Revision 20230801

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	10	dg/min	ISO 1133
Density ⁽¹⁾	1180	kg/m³	ISO 1183
Filler content	20	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.8	%	SABIC method
MECHANICAL PROPERTIES ^{(1) (3)}			
Tensile			
Tensile modulus	6350	MPa	ISO 527/1A
stress at yield	No Yield	MPa	ISO 527/1A
stress at break	85	MPa	ISO 527/1A
strain at break	3	%	ISO 527/1A
Flexural test			
Flexural modulus	6300	MPa	ISO 178/1A
Izod impact notched ^{(1) (3)}			
at 23 °C	7	kJ/m²	ISO 180/1A
at 0 °C	6.0	kJ/m²	ISO 180/1A
at -20 °C	6.5	kJ/m²	ISO 180/1A
THERMAL PROPERTIES			
Heat deflection temperature			
at 1.8 MPa (HDT/A) ⁽¹⁾	144	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100°C	50	µm/mK	ISO 11359-2
FLAMMABILITY PROPERTIES			
UL94			
Lowest thickness V0	1.5	mm	UL 94
GWFI			
at 1.6 mm	960	°C	IEC 60695-2-13
GWIT			
at 0.8 mm	825	°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.