

SABIC® PPCOMPOUND H1025

FLAME RETARDANT GLASS FIBER REINFORCED POLYPROPYLENE

DESCRIPTION

SABIC®PPcompound H1025 is a good flow, halogen free flame retardant, homopolymer with 25% glass fiber, developed for E&E and automotive injection molded applications. It has a UL94V0@1.5mm and 5VA@3.0mm flame rating. This material has been designed to combine a good performance profile with good processing and FR characteristics.

IMDS ID: 712120282
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	9	dg/min	ISO 1133
Density ⁽¹⁾	1230	kg/m ³	ISO 1183
Filler content	25	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.75	%	SABIC method
MECHANICAL PROPERTIES ^{(1) (3)}			
Tensile			
Tensile modulus	7600	MPa	ISO 527/1A
stress at yield	No Yield	MPa	ISO 527/1A
stress at break	91	MPa	ISO 527/1A
strain at break	3	%	ISO 527/1A
Flexural test			
Flexural modulus	7300	MPa	ISO 178/1A
Izod impact notched ^{(1) (3)}			
at 23 °C	7	kJ/m ²	ISO 180/1A
at 0 °C	6	kJ/m ²	ISO 180/1A
at -20 °C	5	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
Heat deflection temperature			
at 1.8 MPa (HDT/A) ⁽¹⁾	146	°C	ISO 75
at 0.45 MPa (HDT/B) ⁽¹⁾	158	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100°C	50	μm/mK	ISO 11359-2
FLAMMABILITY PROPERTIES			
Comparative Tracking Index	600	V	IEC 60112
UL94			
Lowest thickness V0	1.5	mm	UL 94
GWFI			
at 1.6 mm	960	°C	IEC 60695-2-13
GWIT			



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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.

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