

# 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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 230 °C and 2.16 kg	9	dg/min	ISO 1133
<b>Density</b> <sup>(1)</sup>	1230	kg/m³	ISO 1183
<b>Filler content</b>	25	%	SABIC method
<b>Mould shrinkage</b> <sup>(2)</sup>			
24 hours after injection moulding	0.75	%	SABIC method
<b>MECHANICAL PROPERTIES</b> <sup>(1) (3)</sup>			
<b>Tensile</b>			
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
<b>Flexural test</b>			
Flexural modulus	7300	MPa	ISO 178/1A
<b>Izod impact notched</b> <sup>(1) (3)</sup>			
at 23 °C	7	kJ/m²	ISO 180/1A
at 0 °C	6	kJ/m²	ISO 180/1A
at -20 °C	5	kJ/m²	ISO 180/1A
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature</b>			
at 1.8 MPa (HDT/A) <sup>(1)</sup>	146	°C	ISO 75
at 0.45 MPa (HDT/B) <sup>(1)</sup>	158	°C	ISO 75
<b>Coeff. of linear thermal expansion</b>			
-30 °C to 100°C	50	µm/mK	ISO 11359-2
<b>FLAMMABILITY PROPERTIES</b>			
<b>Comparative Tracking Index</b>			
	600	V	IEC 60112
<b>UL94</b>			
Lowest thickness V0	1.5	mm	UL 94
<b>GWFI</b>			
at 1.6 mm	960	°C	IEC 60695-2-13
<b>GWIT</b>			



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

