

SABIC® PPCOMPOUND H1015

FLAME RETARDANT GLASS FIBER REINFORCED POLYPROPYLENE

DESCRIPTION

SABIC®PPcompound H1015 is a high flow, halogen free flame retardant, homopolymer with 15% glass fiber, developed for E&E and automotive injection molded applications. It has a UL94V0@3mm. This material has been designed to combine a good performance profile with good processing and FR characteristics.

IMDS ID: 712119016

UL Yellow Card: E111275

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	15	dg/min	ISO 1133
Density ⁽¹⁾	1100	kg/m³	ISO 1183
Filler content	15	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	0.8	%	SABIC method
MECHANICAL PROPERTIES ^{(1) (3)}			
Tensile			
Tensile modulus	4700	MPa	ISO 527/1A
stress at yield	No Yield	MPa	ISO 527/1A
stress at break	64	MPa	ISO 527/1A
strain at break	3	%	ISO 527/1A
Flexural test			
Flexural modulus	4500	MPa	ISO 178/1A
Izod impact notched ^{(1) (3)}			
at 23 °C	6.3	kJ/m²	ISO 180/1A
at 0 °C	6	kJ/m²	ISO 180/1A
at -20 °C	3.5	kJ/m²	ISO 180/1A
THERMAL PROPERTIES			
Heat deflection temperature			
at 1.8 MPa (HDT/A) ⁽¹⁾	140	°C	ISO 75
at 0.45 MPa (HDT/B) ⁽¹⁾	155	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100°C	64	µm/mK	ISO 11359-2
FLAMMABILITY PROPERTIES			
Comparative Tracking Index			
	600	V	IEC 60112
UL94			
Lowest thickness V0	3	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

