SABIC® PPCOMPOUND H1130

FLAME RETARDANT GLASS FIBER REINFORCED POLYPROPYLENE

DESCRIPTION

SABIC® PPcompound H1130 is a high flow, halogen free flame redardant, copolymer with 30% glass fiber, developed for electrical & electronic injection molded applications. This material has been designed to combine a good performance profile with good processing.

IMDS ID: 881333679
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	7.5	dg/min	ISO 1133
Density [1]	1200	kg/m³	ISO 1183
Filler content	30	%	SABIC method
Mould shrinkage [2]			
24 hours after injection moulding	0.7	%	SABIC method
MECHANICAL PROPERTIES [1] [3]			
Tensile			
Tensile modulus	7300	MPa	ISO 527/1A
stress at yield	75	MPa	ISO 527/1A
stress at break	73	MPa	ISO 527/1A
strain at break	3.1	%	ISO 527/1A
Flexural test			
Flexural modulus	7600	MPa	ISO 178/1A
Izod impact notched [1] [3]			
at 23 °C	9.9	kJ/m²	ISO 180/1A
THERMAL PROPERTIES			
Heat deflection temperature			
at 1.8 MPa (HDT/A) [1]	144	°C	ISO 75
at 0.45 MPa (HDT/B) [1]	158	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100°C	48.5	µm/mK	ISO 11359-2
FLAMMABILITY PROPERTIES			
Comparative Tracking Index	600	V	IEC 60112
UL94			
Lowest thickness for V0	1.7	mm	UL 94
GWFI			
at 1.6 mm	960	°C	IEC 60695-2-13
GWIT			
at 0.8 mm	800	°C	IEC 60695-2-13

CHEMISTRY THAT MATTERS™

(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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