

SABIC® PP COMPOUND H1300

FLAME RETARDANT POLYPROPYLENE

DESCRIPTION

SABIC® PP compound H1300 is a halogen free flame retardant, non-filled Polypropylene compounds. It has a UL94 V0@ 0.8mm flame rating. This material has been designed to combine a good performance profile with good processing and FR characteristics.

IMDS ID:1177797571
UL Yellow Card: E140737

TYPICAL PROPERTY VALUES

Revision 20230804

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	13	dg/min	ISO 1133
Density ⁽¹⁾	1022	kg/m ³	ISO 1183
Filler content	0	%	SABIC method
Mould shrinkage ⁽²⁾			
24 hours after injection moulding	1.2	%	SABIC method
MECHANICAL PROPERTIES ^{(1) (3)}			
Tensile			
Tensile modulus	1680	MPa	ISO 527/1A
stress at yield	17	MPa	ISO 527/1A
stress at break	14	MPa	ISO 527/1A
strain at break	50	%	ISO 527/1A
Flexural test			
Flexural modulus	1650	MPa	ISO 178/1A
Izod impact notched ^{(1) (3)}			
at 23 °C	5	kJ/m ²	ISO 180/1A
at 0 °C	3	kJ/m ²	ISO 180/1A
at -20 °C	2	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
Heat deflection temperature			
at 1.8 MPa (HDT/A) ⁽¹⁾	100	°C	ISO 75
at 0.45 MPa (HDT/B) ⁽¹⁾	60	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100°C		µm/mK	ISO 11359-2
FLAMMABILITY PROPERTIES			
Comparative Tracking Index	600	V	IEC 60112
UL94			
Lowest thickness for V0	0.8	mm	UL 94

(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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