

SABIC® PP COMPOUND H1200

FLAME RETARDANT POLYPROPYLENE

DESCRIPTION

SABIC® PP compound H1200 is a high impact, halogen free flame retardant, non mineral filled Polypropylene compound. It has a UL94 VO@ 2mm flame rating. This material has been designed to combine a good performance profile with good processing and FR characteristics.

Melt temperature of 240 °C should not be exceeded during processing.

IMDS ID:1062970462

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⁾	990	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	980	MPa	ISO 527/1A
stress at yield	15	MPa	ISO 527/1A
stress at break	11	MPa	ISO 527/1A
strain at break	19	%	ISO 527/1A
Flexural test			
Flexural modulus	1000	MPa	ISO 178/1A
Izod impact notched ^{(1) (3)}			
at 23 °C	13	kJ/m ²	ISO 180/1A
at 0 °C	5	kJ/m ²	ISO 180/1A
at -20 °C	4	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
Heat deflection temperature			
at 1.8 MPa (HDT/A) ⁽¹⁾	48	°C	ISO 75
at 0.45 MPa (HDT/B) ⁽¹⁾	85	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100°C	130	µm/mK	ISO 11359-2
FLAMMABILITY PROPERTIES			
Comparative Tracking Index	600	V	IEC 60112
UL94			
Lowest thickness for VO	2.0	mm	UL 94
GWIT			
at 0.8 mm	650	°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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