SABIC® PPCOMPOUND H1090

FLAME RETARDANT GLASS FIBER REINFORCED POLYPROPYLENE

DESCRIPTION

SABIC® PPcompound H1090 is a low flow, halogen free flame retardant, Polypropylene reinforced with 30% short glass fibers, developed for extruded and thermoformed applications. It has a UL94V0@1.5mm. This material has been designed to combine a good performance profile with good processing and FR characteristics.

IMDS ID:1157471544

TYPICAL PROPERTY VALUES

Revision 20230801

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	2	dg/min	ISO 1133
Density (1)	1300	kg/m³	ISO 1183
Filler content	30	%	SABIC method
MECHANICAL PROPERTIES (1) (2)			
Tensile			
Tensile modulus	8300	MPa	ISO 527/1A
stress at yield	95	MPa	ISO 527/1A
strain at break	2.6	%	ISO 527/1A
Flexural test			
Flexural modulus	8330	MPa	ISO 178/1A
THERMAL PROPERTIES			
Heat deflection temperature			
at 1.8 MPa (HDT/A) (1)	150	°C	ISO 75
Coeff. of linear thermal expansion			
-30 °C to 100°C	42	µm/mK	ISO 11359-2
FLAMMABILITY PROPERTIES			
Comparative Tracking Index	600	V	IEC 60112
UL94			
Lowest thickness V0	1.5	mm	UL 94
GWFI			
at 1.6 mm	700	°C	IEC 60695-2-13

(1) Injection molded sample ISO527-1A
(2) 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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DISCLAIMER