

STAMAX™ 30YH611

FR PP LGF REINFORCED

DESCRIPTION

STAMAX™ 30YH611 is a low flow, halogen free flame retardant, Polypropylene reinforced with 30% long glass fiber, developed for extruded and thermoformed applications. The glass fibres are chemically coupled to the PP matrix, resulting in high stiffness and strength. This material has been designed to combine a good performance profile with good processing.

STAMAX™ 30YH611 should be dried at 100C for 2 hours before processing.

TYPICAL PROPERTY VALUES

Revision 20230811

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density	1310	kg/m ³	ISO 1183
Glass fibre content	30	%	ISO 3451
MECHANICAL PROPERTIES⁽¹⁾			
Tensile modulus			
at 23 °C	8100	MPa	ISO 527/1A
at 80 °C	5000	MPa	ISO 527/1A
Tensile strength			
at 23 °C	90	MPa	ISO 527/1A
at 80 °C	50	MPa	ISO 527/1A
Tensile elongation at break			
at 23 °C	2.5	%	ISO 527/1A
Flexural Modulus			
at 23 °C	8850	MPa	ISO 178
at 80 °C	5700	MPa	ISO 178
Flexural strength			
at 23 °C	165	MPa	ISO 178
at 80 °C	90	MPa	ISO 178
Charpy Impact Strength Notched			
at 23 °C	17	kJ/m ²	ISO 179/1eA
at -30 °C	16	kJ/m ²	ISO 179/1eA
Charpy impact unnotched			
at 23 °C	50	kJ/m ²	ISO 179/1eU
at -30 °C	50	kJ/m ²	ISO 179/1eU
THERMAL PROPERTIES			
Heat deflection temperature			
at 1.80 MPa (HDT/A)	150	°C	ISO 75/A
Coeff. of linear thermal expansion			
-30 °C to 100 °C	46	µm/mK	ISO 11359-2
FLAMMABILITY PROPERTIES			
Comparative Tracking Index	600	V	IEC 60112
UL94			
Lowest thickness for VO	1.0	mm	UL 94

(1) All measurements on injection molded samples.

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