



# STAMAX™ 30YH570

FR PP LGF REINFORCED

## DESCRIPTION

STAMAX™ 30YH570 is a high flow, halogen free flame retardant, copolymer with 30% long glass fiber, developed for E&E and automotive injection molded 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™ 30YH570 should be dried at 100°C for 2 hours before the injection molding.

IMDS ID: 717262968

## TYPICAL PROPERTY VALUES

Revision 20241126

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Density	1286	kg/m <sup>3</sup>	ISO 1183
Glass fibre content	30	%	ISO 3451
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
<b>Tensile modulus</b>			
at 23 °C	7600	MPa	ISO 527 / 1A
at 80 °C	4800	MPa	ISO 527 / 1A
<b>Tensile strength</b>			
at 23 °C	80	MPa	ISO 527 / 1A
at 80 °C	40	MPa	ISO 527 / 1A
<b>Tensile elongation at break</b>			
at 23 °C	2	%	ISO 527 / 1A
<b>Flexural Modulus</b>			
at 23 °C	7900	MPa	ISO 178
at 80 °C	5000	MPa	ISO 178
<b>Flexural strength</b>			
at 23 °C	125	MPa	ISO 178
at 80 °C	65	MPa	ISO 178
<b>Charpy Impact Strength Notched</b>			
at 23 °C	14	kJ/m <sup>2</sup>	ISO 179 / 1eA
at -30 °C	12	kJ/m <sup>2</sup>	ISO 179 / 1eA
<b>Charpy impact unnotched</b>			
at 23 °C	41	kJ/m <sup>2</sup>	ISO 179 / 1eU
at -30 °C	41	kJ/m <sup>2</sup>	ISO 179 / 1eU
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature</b>			
at 1.80 MPa (HDT/A)	155	°C	ISO 75/A
<b>Coeff. of linear thermal expansion</b>			
-30 °C to 100 °C	49	µm/mK	ISO 11359-2
<b>FLAMMABILITY PROPERTIES</b>			
UL Yellow Card Link	<a href="#">E111275</a>	-	
Comparative Tracking Index	600	V	IEC 60112



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>UL94</b>			
Lowest thickness for VO	1.5	mm	UL 94
<b>GWFI</b>			
at 0.8mm	960	°C	IEC 60695-2-12
at 1.6mm	960	°C	IEC 60695-2-12
<b>GWIT</b>			
at 0.8 mm	700	°C	IEC 60695-2-13
at 1.0 mm	700	°C	IEC 60695-2-13

(1) All measurements on injection molded samples.

#### DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

