

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 20240112

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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
UL94			
Lowest thickness for V0	1.5	mm	UL 94
GWFI			
at 0.8mm	960	°C	IEC 60695-2-12
at 1.6mm	960	°C	IEC 60695-2-12
GWIT			
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.

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