STAMAX™ 20YH510

FR PP LGF REINFORCED

DESCRIPTION

STAMAX™ 20YH510 is a high flow, halogen free flame retardant, copolymer reinforced with 20% long glass fiber, developed for Injection molded applications. This material has been designed to combine a good performance profile with good processing.

STAMAX™ 20YH510 should be dried at 100C for 2 hours before the injection molding.
Melt temperature of 240 °C should not be exceeded during processing.

IMDS ID:1181781542

TYPICAL PROPERTY VALUES

Revision 20221213

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density	1225	kg/m³	ISO 1183
Glass fibre content	20	%	ISO 3451
MECHANICAL PROPERTIES [1]			
Tensile modulus			
at 23 °C	6000	MPa	ISO 527/1A
at 80 °C	2900	MPa	ISO 527/1A
Tensile strength			
at 23 °C	70	MPa	ISO 527/1A
at 80 °C	37	MPa	ISO 527/1A
Tensile elongation at break			
at 23 °C	2.1	%	ISO 527/1A
Flexural Modulus			
at 23 °C	6200	MPa	ISO 178
at 80 °C	4000	MPa	ISO 178
Flexural strength			
at 23 °C	120	MPa	ISO 178
at 80 °C	60	MPa	ISO 178
Charpy Impact Strength Notched			
at 23 °C	14	kJ/m²	ISO 179/1eA
at -30 °C	14	kJ/m²	ISO 179/1eA
Charpy impact unnotched			
at 23 °C	36	kJ/m²	ISO 179/1eU
at -30 °C	35	kJ/m²	ISO 179/1eU
THERMAL PROPERTIES			
Heat deflection temperature			
at 1.80 MPa (HDT/A)	152	°C	ISO 75/A
Coeff. of linear thermal expansion			
-30 °C to 100 °C		µm/mK	ISO 11359-2
FLAMMABILITY PROPERTIES			
GWFI			
at 1.6mm		°C	IEC 60695-2-12

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
UL94			
Lowest thickness for V0	0.8	mm	UL 94
Comparative Tracking Index	600	V	IEC 60112

(1) All measurements on injection molded samples.

DISCLAIMER