

STAMAX™ 40YH525

FR PP LGF REINFORCED

DESCRIPTION

STAMAX™ 40YH525 is a high flow, halogen free flame retardant, copolymer with 40% long glass fiber, developed for 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™ 40YH525 should be dried at 100°C for 2 hours before the injection molding.

IMDS ID: 1483762494

Melt temperature of 240 °C should not be exceeded during processing.

TYPICAL PROPERTY VALUES

Revision 20260407

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density	1350	kg/m³	ISO 1183
Glass fibre content	40	%	ISO 3451
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile modulus			
at 23 °C	9050	MPa	ISO 527/1A
at 80 °C	5500	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	9500	MPa	ISO 178
at 80 °C	6250	MPa	ISO 178
Flexural strength			
at 23 °C	135	MPa	ISO 178
at 80 °C	75	MPa	ISO 178
Charpy Impact Strength Notched			
at 23 °C	20	kJ/m²	ISO 179/1eA
at -30 °C	17	kJ/m²	ISO 179/1eA
Charpy impact unnotched			
at 23 °C	47	kJ/m²	ISO 179/1eU
at -30 °C	45	kJ/m²	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	48	µm/mK	ISO 11359-2
FLAMMABILITY PROPERTIES			

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CHEMISTRY THAT MATTERS™



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
GWFI			
at 1.6mm	900	°C	IEC 60695-2-12
UL94			
Lowest thickness for V0	3	mm	UL 94
Comparative Tracking Index	600	V	IEC 60112

(1) All measurements on injection molded samples.

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