

# STAMAX™ 20YM243

PP LGF REINFORCED

## DESCRIPTION

STAMAX™ 20YM243 is a 20% long glass fiber reinforced UV stabilized grade. The glass fibers are chemically coupled to the PP matrix, resulting in high stiffness and strength.

IMDS ID: 509764616

## TYPICAL PROPERTY VALUES

Revision 20240523

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Density	1040	kg/m <sup>3</sup>	ISO 1183
Glass fibre content	20	%	ISO 3451
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
<b>Tensile modulus</b>			
at 23 °C	4600	MPa	ISO 527/1A
at 80 °C	3400	MPa	ISO 527/1A
<b>Tensile strength</b>			
at 23 °C	80	MPa	ISO 527/1A
at 80 °C	50	MPa	ISO 527/1A
<b>Tensile elongation at break</b>			
at 23 °C	2.5	%	ISO 527/1A
<b>Flexural Modulus</b>			
at 23 °C	4600	MPa	ISO 178
at 80 °C	3100	MPa	ISO 178
<b>Flexural strength</b>			
at 23 °C	130	MPa	ISO 178
at 80 °C	75	MPa	ISO 178
<b>Charpy Impact Strength Notched</b>			
at 23 °C	14	kJ/m <sup>2</sup>	ISO 179/1eA
at -30 °C	15	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Charpy impact unnotched</b>			
at 23 °C	40	kJ/m <sup>2</sup>	ISO 179/1eU
at -30 °C	20	kJ/m <sup>2</sup>	ISO 179/1eU
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature</b>			
at 1.80 MPa (HDT/A)	156	°C	ISO 75/A
<b>Coeff. of linear thermal expansion</b>			
-30 °C to 100 °C	52	µm/mK	ISO 11359-2

(1) All measurements on injection molded samples.



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