

STAMAX™ 20YM243

PP LGF REINFORCED

DESCRIPTION

SABIC® 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

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

(1) All measurements on injection molded samples.

