

# STAMAX™ 20YK270EE

PP LGF REINFORCED IMPACT MODIFIED

## DESCRIPTION

SABIC® STAMAX™ 20YK270EE is a 20% long glass fiber reinforced low emission grade with improved impact and flow properties. The glass fibers are chemically coupled to the PP matrix, resulting in high stiffness and strength.

IMDS ID: 577962470

## TYPICAL PROPERTY VALUES

Revision 20210414

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	4500	MPa	ISO 527/1A
at 80 °C	3250	MPa	ISO 527/1A
<b>Tensile strength</b>			
at 23 °C	75	MPa	ISO 527/1A
at 80 °C	45	MPa	ISO 527/1A
<b>Tensile elongation at break</b>			
at 23 °C	2.5	%	ISO 527/1A
<b>Flexural Modulus</b>			
at 80 °C	3000	MPa	ISO 178
at 23 °C	4000	MPa	ISO 178
<b>Flexural strength</b>			
at 23 °C	115	MPa	ISO 178
at 80 °C	60	MPa	ISO 178
<b>Charpy Impact Strength Notched</b>			
at 23 °C	19	kJ/m <sup>2</sup>	ISO 179/1eA
at -30 °C	18	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Charpy impact unnotched</b>			
at 23 °C	45	kJ/m <sup>2</sup>	ISO 179/1eU
at -30 °C	55	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	50	µm/mK	ISO 11359-2

(1) All measurements on injection molded samples.

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