

SABIC® STAMAX™ 20YK270E

PP LGF REINFORCED IMPACT MODIFIED

DESCRIPTION

SABIC® STAMAX 20YK270E is a 20% long glass fiber reinforced low emission grade with improved impact and flow properties. The glass fibres are chemically coupled to the PP matrix, resulting in high stiffness and strength.

IMDS ID: 80929423

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

(1) All measurements on injection molded samples.