

STAMAX™ 20YK270

PP LGF REINFORCED IMPACT MODIFIED

DESCRIPTION

SABIC® STAMAX 20YK270 is a 20% long glass fiber reinforced 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.

