

# SABIC<sup>®</sup> STAMAX<sup>™</sup> 40YM241

PP LGF REINFORCED  
REGION EUROPE

## DESCRIPTION

SABIC<sup>®</sup> STAMAX 40YM241 is a high heat resistant 40% long glass fiber reinforced grade. The glass fibers are chemically coupled to the PP matrix, resulting in high stiffness and strength.

IMDS ID: 459463868

## TYPICAL PROPERTY VALUES

Revision 20190213

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Density	1220	kg/m <sup>3</sup>	ISO 1183
Glass fibre content	40	%	ISO 3451
<b>MECHANICAL PROPERTIES<sup>(1)</sup></b>			
<b>Tensile modulus</b>			
at 23 °C	8200	MPa	ISO 527/1A
at 80 °C	5400	MPa	ISO 527/1A
<b>Tensile strength</b>			
at 23 °C	110	MPa	ISO 527/1A
at 80 °C	65	MPa	ISO 527/1A
<b>Tensile elongation at break</b>			
at 23 °C	2.1	%	ISO 527/1A
<b>Flexural Modulus</b>			
at 23 °C	8700	MPa	ISO 178
at 80 °C	6100	MPa	ISO 178
<b>Flexural strength</b>			
at 23 °C	180	MPa	ISO 178
at 80 °C	105	MPa	ISO 178
<b>Charpy Impact Strength Notched</b>			
at 23 °C	26	kJ/m <sup>2</sup>	ISO 179/1eA
at -30 °C	25	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Charpy impact unnotched</b>			
at 23 °C	55	kJ/m <sup>2</sup>	ISO 179/1eU
at -30 °C	50	kJ/m <sup>2</sup>	ISO 179/1eU
<b>THERMAL PROPERTIES</b>			
<b>Heat deflection temperature</b>			
at 1.80 MPa (HDT/A)	158	°C	ISO 75/A
<b>Coeff. of linear thermal expansion</b>			
-30 °C to 100 °C	40	µm/mK	ISO 11359-2

(1) All measurements on injection molded samples.

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