

STAMAX™ T3G40YR240E

FR PP LGF REINFORCED

DESCRIPTION

STAMAX™ T3G40YR240E is a 40% long glass fiber reinforced polypropylene, which is formulated with 30% post consumer recycled plastics. The glass fibers are chemically coupled to the PP matrix, resulting in high stiffness and strength. The material offers carbon footprint reduction compared to virgin based STAMAX™.

The grade is part of SABIC's TRUCIRCLE™ portfolio and services

IMDS ID: 1271206484

TYPICAL PROPERTY VALUES

Revision 20231027

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density	1220	kg/m³	ISO 1183
Glass fibre content	40	%	ISO 3451
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile modulus			
at 23 °C	8400	MPa	ISO 527/1A
at 80 °C	5400	MPa	ISO 527/1A
Tensile strength			
at 23 °C	110	MPa	ISO 527/1A
at 80 °C	65	MPa	ISO 527/1A
Tensile elongation at break			
at 23 °C	2.5	%	ISO 527/1A
Flexural Modulus			
at 23 °C	8500	MPa	ISO 178
at 80 °C	6000	MPa	ISO 178
Flexural strength			
at 23 °C	180	MPa	ISO 178
at 80 °C	105	MPa	ISO 178
Charpy Impact Strength Notched			
at 23 °C	22	kJ/m²	ISO 179/1eA
at -30 °C	25	kJ/m²	ISO 179/1eA
Charpy impact unnotched			
at 23 °C	55	kJ/m²	ISO 179/1eU
at -30 °C	48	kJ/m²	ISO 179/1eU
THERMAL PROPERTIES			
Heat deflection temperature			
at 1.80 MPa (HDT/A)	158	°C	ISO 75/A
Coeff. of linear thermal expansion			
-30 °C to 100 °C	40	µm/mK	ISO 11359-2

(1) All measurements on injection molded samples.

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