

STAMAX™ T5E-40YR270E

PP LGF REINFORCED

DESCRIPTION

STAMAX™ T5E-40YR270E is a 40% long glass fiber reinforced polypropylene, which is formulated with 50 % recycled plastic. The glass fibers are chemically coupled to the PP matrix, resulting in high stiffness and strength. The grade is part of SABIC's TRUCIRCLE™ portfolio and services.

STAMAX™ T5E-40YR270E should be dried at 100C for 2 hours before the injection molding.

IMDS ID:1177789980

TYPICAL PROPERTY VALUES

Revision 20230321

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density	1220	kg/m ³	ISO 1183
Glass fibre content	40	%	ISO 3451
MECHANICAL PROPERTIES⁽¹⁾			
Tensile modulus			
at 23 °C	8200	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	2.1	%	ISO 527/1A
Flexural Modulus			
at 23 °C	8200	MPa	ISO 178
at 80 °C	6100	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	26	kJ/m ²	ISO 179/1eA
at -30 °C	25	kJ/m ²	ISO 179/1eA
Charpy impact unnotched			
at 23 °C	55	kJ/m ²	ISO 179/1eU
at -30 °C	50	kJ/m ²	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.

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)



DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.