

STAMAX™ 20YK270

Polypropylene
SABIC

PROSPECTOR®

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Technical Data

Product 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

General

Material Status	• Commercial: Active
Search for UL Yellow Card	• SABIC
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight • Long Glass Fiber, 20% Filler by Weight
Additive	• Impact Modifier
Features	• Chemically Coupled • High Stiffness • High Strength • Impact Modified
Uses	• Automotive Interior Parts
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.04 g/cm ³	ISO 1183
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		ISO 527-2/1A
23°C, Injection Molded	4500 MPa	
80°C, Injection Molded	3250 MPa	
Tensile Stress		ISO 527-2/1A
23°C, Injection Molded	75.0 MPa	
80°C, Injection Molded	45.0 MPa	
Tensile Elongation (Break, Injection Molded)	2.5 %	ASTM D638
Flexural Modulus		ISO 178
23°C, Injection Molded	4000 MPa	
80°C, Injection Molded	3000 MPa	
Flexural Stress		ISO 178
23°C, Injection Molded	115 MPa	
80°C, Injection Molded	60.0 MPa	
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C, Injection Molded	18 kJ/m ²	
23°C, Injection Molded	19 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C, Injection Molded	55 kJ/m ²	
23°C, Injection Molded	45 kJ/m ²	
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		ISO 75-2/A
1.8 MPa, Unannealed	156 °C	
CLTE - Flow (-30 to 100°C)	5.0E-5 cm/cm/°C	ISO 11359-2

Notes

¹ Typical properties: these are not to be construed as specifications.



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Where to Buy

Supplier

SABIC

Web: <http://www.sabic.com/>

Distributor

3Polymer (Guangzhou) Chemical Technology Co., Ltd.

Telephone: +86-20-3466-7988

Web: <http://3polymer.com>

Availability: China

Nexeo Plastics

Nexeo Plastics is leading global resin distributor with the technical resources you need to overcome material challenges. Visit us on the web at www.nexeoplastics.com.

Telephone: 833-446-3936

Web: <https://www.nexeoplastics.com/>

Availability: North America

