

SABIC® STAMAX 40YM240

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® STAMAX 40YM240 is a 40% long glass fiber reinforced grade. The glass fibres are chemically coupled to the PP matrix, resulting in high stiffness and strength.

General Information			
Filler / Reinforcement	Long Glass Fiber,40% Filler by Weight		
Features	Chemically Coupled		
	High Stiffness		
	High Strength		
Uses	Automotive Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1B
23°C, Injection Molded	8300	MPa	
80°C, Injection Molded	5700	MPa	
120°C, Injection Molded	4500	MPa	
Tensile Stress ¹			ISO 527-2
23°C, Injection Molded	121	MPa	
80°C, Injection Molded	75.0	MPa	
120°C, Injection Molded	54.0	MPa	
Tensile Strain (Break, 23°C, Injection Molded)	2.1	%	ISO 527-2/1B
Flexural Modulus			ISO 178
23°C, Injection Molded	7850	MPa	
80°C, Injection Molded	5550	MPa	
Flexural Stress			ISO 178
23°C, Injection Molded	172	MPa	
80°C, Injection Molded	91.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Injection Molded	28	kJ/m ²	
23°C, Injection Molded	22	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C, Injection Molded	48	kJ/m ²	

23°C, Injection Molded	68	kJ/m ²	
Falling Dart Impact - Total Energy ² (23°C)	66.0	J/cm	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	157	°C	ISO 75-2/A
CLTE - Flow			ASTM D696
-30 to 30°C	4.4E-5	cm/cm/°C	
23 to 80°C	3.1E-5	cm/cm/°C	
NOTE			
1.	Type 1B		
2.	Injection Molded		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

