

SABIC® STAMAX 40YM241

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® STAMAX 40YM241 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	
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		

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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

