

SABIC® STAMAX 20YM243

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® STAMAX 20YM243 is a 20% 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, 20% filler by weight		
Features	Rigidity, high		
	High strength		
	Chemical coupling		
Uses	Application in Automobile Field		
Forms	Particle		
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 527-2/1B
23°C, injection molding	4800	MPa	ISO 527-2/1B
80°C, injection molding	3400	MPa	ISO 527-2/1B
120°C, injection molding	2800	MPa	ISO 527-2/1B
Tensile Stress ¹			ISO 527-2
23°C, injection molding	90.0	MPa	ISO 527-2
80°C, injection molding	60.0	MPa	ISO 527-2
120°C, injection molding	45.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C, Injection Molded)	2.5	%	ISO 527-2/1B
Flexural Modulus			ISO 178
23°C, injection molding	4100	MPa	ISO 178
80°C, injection molding	2850	MPa	ISO 178
Flexural Stress			ISO 178
23°C, injection molding	120	MPa	ISO 178
80°C, injection molding	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, injection molding	18	kJ/m ²	ISO 179/1eA
23°C, injection molding	14	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C, injection molding	24	kJ/m ²	ISO 179/1eU

23°C, injection molding	44	kJ/m ²	ISO 179/1eU
Falling Dart Impact - Total Energy ² (23°C)	37.0	J/cm	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	156	°C	ISO 75-2/A
CLTE - Flow			ASTM D696
-30 to 30°C	5.9E-5	cm/cm/°C	ASTM D696
23 to 80°C	5.4E-5	cm/cm/°C	ASTM D696
NOTE			
1.	Type 1B		
2.	Injection Molded		

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