

SABIC® STAMAX 20YK270E

Polypropylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® STAMAX 20YK270E is a 20% long glass fiber reinforced low emission grade with improved impact and flow properties. 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		
Additive	Impact Modifier		
Features	Chemically Coupled		
	High Stiffness		
	High Strength		
	Impact Modified		
	Low Emissions		
Uses	Automotive Applications		
Forms	Pellets		
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 Molded	4450	MPa	
80°C, Injection Molded	3250	MPa	
120°C, Injection Molded	2850	MPa	
Tensile Stress ¹			ISO 527-2
23°C, Injection Molded	80.0	MPa	
80°C, Injection Molded	54.0	MPa	
120°C, Injection Molded	40.0	MPa	
Tensile Strain (Break, 23°C, Injection Molded)	2.4	%	ISO 527-2/1B
Flexural Modulus			ISO 178
23°C, Injection Molded	3900	MPa	
80°C, Injection Molded	2850	MPa	
Flexural Stress			ISO 178
23°C, Injection Molded	108	MPa	
80°C, Injection Molded	63.0	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	16	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C, Injection Molded	56	kJ/m ²	
23°C, Injection Molded	49	kJ/m ²	
Falling Dart Impact - Total Energy ² (23°C)	47.0	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	6.8E-5	cm/cm/°C	
23 to 80°C	5.4E-5	cm/cm/°C	
NOTE			
1.	Type 1B		
2.	Injection Molded		

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