

SABIC® STAMAX 20YM240 resin

Polypropylene

SABIC Innovative Plastics

Message:

SABIC® STAMAX 20YM240 is a 20% long glass fiber reinforced polypropylene. The glass fibers are chemically coupled to the PP matrix, resulting in high stiffness and strength. The IMDS is 62455287.

General Information			
Filler / Reinforcement	Long glass fiber, 20% filler by weight		
Features	Rigidity, high		
	High strength		
	Chemical coupling		
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 527-2/1
--	4800	MPa	ISO 527-2/1
80°C	3400	MPa	ISO 527-2/1
120°C	2800	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/1A/50
Fracture	90.0	MPa	ISO 527-2/1A/50
Fracture, 80°C	60.0	MPa	ISO 527-2/1A/50
Fracture, 120°C	45.0	MPa	ISO 527-2/1A/50
Tensile Strain (Break)	2.5	%	ISO 527-2/50
Flexural Modulus ¹			ISO 178
64.0mm span	4100	MPa	ISO 178
80°C, 64.0mm span	2850	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C ²	18	kJ/m ²	ISO 179/1eA
23°C ³	14	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	24	kJ/m ²	ISO 179/1eU
23°C	44	kJ/m ²	ISO 179/1eU
Multi-Axial Instrumented Impact Energy ⁵ (23°C, Energy to Peak Force)	3.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶ (1.8 MPa, Unannealed)	156	°C	ISO 75-2/A

Additional Information	Nominal Value	Unit	Test Method
Glass Fiber Content	20	%	ISO 3451
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 100	°C	
Drying Time	2.0	hr	
Rear Temperature	230 - 290	°C	
Middle Temperature	225 - 285	°C	
Front Temperature	220 - 280	°C	
Nozzle Temperature	220 - 280	°C	
Processing (Melt) Temp	220 - 280	°C	
Mold Temperature	20.0 - 80.0	°C	
Back Pressure	0.00 - 0.500	MPa	
Injection instructions			
Screw Speed: Lowest Possible			
NOTE			
1.	2.0 mm/min		
2.	80*10*4mm, Cut		
3.	80*10*4 mm, Cut		
4.	80*10*4mm, Cut		
5.	6.6 m/sec		
6.	80*10*4mm, Cut		

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