

SABIC® STAMAX 20YK270 resin

Polypropylene

SABIC Innovative Plastics

Message:

SABIC® STAMAX 20YK270 is a 20% long glass fiber reinforced polypropylene with improved impact and flow properties. The glass fibers are chemically coupled to the PP matrix, resulting in high stiffness and strength. The IMDS is 80929423.

General Information			
Filler / Reinforcement	Long glass fiber, 20% filler by weight		
Features	Rigidity, high		
	High strength		
	Chemical coupling		
	Impact resistance, good		
	Good liquidity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792, ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
--	4450	MPa	ISO 527-2/1
80°C	3250	MPa	ISO 527-2/1
120°C	2850	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/1A/50
Fracture	80.0	MPa	ISO 527-2/1A/50
Fracture, 80°C	54.0	MPa	ISO 527-2/1A/50
Fracture, 120°C	40.0	MPa	ISO 527-2/1A/50
Tensile Strain (Break)	2.4	%	ISO 527-2/50
Flexural Modulus ¹			ISO 178
64.0mm span	3900	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	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	56	kJ/m ²	ISO 179/1eU
23°C	49	kJ/m ²	ISO 179/1eU
Notched Izod Impact ⁵ (23°C)	17	kJ/m ²	ISO 180/1A
Multi-Axial Instrumented Impact Energy ⁶ (23°C, Energy to Peak Force)	4.70	J	ISO 6603-2

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷ (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.	80*10*4mm, Cut		
6.	6.6 m/sec		
7.	80*10*4mm, Cut		

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