

## SABIC Innovative Plastics SABIC STAMAX 20YK270 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

SABICÂ® 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.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-SABIC-STAMAX-20YK270-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-STAMAX-20YK270-PP.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ISO 1183
Filler Content	20 %	20 %	glass; ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	50 mm/min, 1A; ISO 527
	40.0 MPa	5800 psi	50 mm/min, 1A; ISO 527
	@Temperature 120 Â°C	@Temperature 248 Â°F	
Tensile Strength at Break	54.0 MPa	7830 psi	50 mm/min, 1A; ISO 527
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
Elongation at Break	2.4 %	2.4 %	50 mm/min; ISO 527
Tensile Modulus	4.45 GPa	645 ksi	1 mm/min; ISO 527
	2.85 GPa	413 ksi	1 mm/min; ISO 527
	@Temperature 120 Â°C	@Temperature 248 Â°F	
Tensile Modulus	3.25 GPa	471 ksi	1 mm/min; ISO 527
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
Flexural Modulus	3.90 GPa	566 ksi	2 mm/min, 64mm span; ISO 178
	2.85 GPa	413 ksi	2 mm/min, 64mm span; ISO 178
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
Izod Impact, Notched (ISO)	17.0 kJ/m <sup>2</sup>	8.09 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 180/1A
Charpy Impact, Notched	1.60 J/cm <sup>2</sup>	7.61 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 179/1eA

Mechanical Properties	Metric	English	Comments
	1.80 J/cm <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	156 °C	313 °F	80*10*4mm, Cut; ISO 75-1&2

## Contact Songhan Plastic Technology Co.,Ltd.

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