

## SABIC Innovative Plastics SABIC STAMAX 40YM240 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

SABICÂ® STAMAX 40YM240 is a 40% long glass fiber reinforced polypropylene. The glass fibers are chemically coupled to the PP matrix, resulting in high stiffness and strength. The IMDS is 16497161.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-SABIC-STAMAX-40YM240-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-STAMAX-40YM240-PP.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ISO 1183
Filler Content	40 %	40 %	glass; ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	108 MPa	15700 psi	Type I, 50 mm/min; ASTM D638
	121 MPa	17500 psi	50 mm/min, 1A; ISO 527
	54.0 MPa @Temperature 120 Â°C	7830 psi @Temperature 248 Â°F	50 mm/min, 1A; ISO 527
Elongation at Break	75.0 MPa @Temperature 80.0 Â°C	10900 psi @Temperature 176 Â°F	50 mm/min, 1A; ISO 527
	1.8 %	1.8 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.1 %	2.1 %	50 mm/min; ISO 527
	8.30 GPa	1200 ksi	1 mm/min; ISO 527
	8.47 GPa	1230 ksi	50 mm/min; ASTM D638
Flexural Modulus	4.50 GPa @Temperature 120 Â°C	653 ksi @Temperature 248 Â°F	1 mm/min; ISO 527
	5.70 GPa @Temperature 80.0 Â°C	827 ksi @Temperature 176 Â°F	1 mm/min; ISO 527
	7.67 GPa	1110 ksi	1.3 mm/min, 50 mm span; ASTM D790
	7.85 GPa	1140 ksi	2 mm/min, 64mm span; ISO 178

Mechanical Properties	Metric	English	Comments
	9.55 GPa	205 ksi	2 mm/min, 54mm span; ISO 178
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
Izod Impact, Notched (ISO)	17.0 kJ/mÂ²	8.09 ft-lb/inÂ²	80*10*4mm, Cut; ISO 180/1A
Charpy Impact, Notched	2.20 J/cmÂ²	10.5 ft-lb/inÂ²	80*10*4mm, Cut; ISO 179/1eA
	2.80 J/cmÂ²	13.3 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	80*10*4mm, Cut; ISO 179/1eA
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak, 6.6 m/s; ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	157 Â°C	315 Â°F	80*10*4mm, Cut; ISO 75-1&2
	158 Â°C	316 Â°F	ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China