

SABIC Innovative Plastics SABIC STAMAX 20YM240 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-STAMAX-20YM240-PP.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Filler Content	20 %	20 %	glass; ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	50 mm/min, 1A; ISO 527
	45.0 MPa	6530 psi	50 mm/min, 1A; ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
Elongation at Break	60.0 MPa	8700 psi	50 mm/min, 1A; ISO 527
	@Temperature 80.0 °C	@Temperature 176 °F	
	2.5 %	2.5 %	50 mm/min; ISO 527
Tensile Modulus	4.80 GPa	696 ksi	1 mm/min; ISO 527
	2.80 GPa	406 ksi	1 mm/min; ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
Flexural Modulus	3.40 GPa	493 ksi	1 mm/min; ISO 527
	@Temperature 80.0 °C	@Temperature 176 °F	
	4.10 GPa	595 ksi	2 mm/min, 64mm span; ISO 178
Charpy Impact, Notched	2.85 GPa	413 ksi	2 mm/min, 64mm span; ISO 178
	@Temperature 80.0 °C	@Temperature 176 °F	
	1.30 J/cm ²	6.19 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA
Charpy Impact, Notched	1.80 J/cm ²	8.57 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
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Deflection Temperature at 1.8 MPa Thermal Properties (104 psi)	156 °C Metric	313 °F English	80*10*4mm, Cut; ISO 75-1&2 Comments
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