

SABIC Innovative Plastics SABIC STAMAX 40YM243 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABIC® STAMAX 40YM243 is a 40% long glass fiber reinforced UV stabilized polypropylene. The glass fibers are chemically coupled to the PP matrix, resulting in high stiffness and strength. The IMDS is 209768490.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-STAMAX-40YM243-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 ³	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	7830 psi	50 mm/min, 1A; ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
Elongation at Break	75.0 MPa	10900 psi	50 mm/min, 1A; ISO 527
	@Temperature 80.0 °C	@Temperature 176 °F	
Tensile Modulus	1.8 %	1.8 %	Type I, 50 mm/min; ASTM D638
	2.1 %	2.1 %	50 mm/min; ISO 527
Flexural Modulus	8.30 GPa	1200 ksi	1 mm/min; ISO 527
	8.47 GPa	1230 ksi	50 mm/min; ASTM D638
	4.50 GPa	653 ksi	1 mm/min; ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
Flexural Modulus	5.70 GPa	827 ksi	1 mm/min; ISO 527
	@Temperature 80.0 °C	@Temperature 176 °F	
Flexural Modulus	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
	5.55 GPa	805 ksi	2 mm/min, 64mm span; ISO 178

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

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

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