

SABIC Innovative Plastics SABIC STAMAX 30YM243 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABIC[®] STAMAX 30YM243 is a 30% 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 209768303.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-STAMAX-30YM243-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Filler Content	30 %	30 %	glass; ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	97.0 MPa	14100 psi	Type I, 50 mm/min; ASTM D638
	110 MPa	16000 psi	50 mm/min, 1A; ISO 527
	51.0 MPa	7400 psi	50 mm/min, 1A; ISO 527
	@Temperature 120 Â°C	@Temperature 248 Â°F	
Elongation at Break	70.0 MPa	10200 psi	50 mm/min, 1A; ISO 527
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
Tensile Modulus	2.0 %	2.0 %	Type I, 50 mm/min; ASTM D638
	2.3 %	2.3 %	50 mm/min; ISO 527
Tensile Modulus	6.65 GPa	965 ksi	1 mm/min; ISO 527
	6.69 GPa	970 ksi	50 mm/min; ASTM D638
	3.50 GPa	508 ksi	1 mm/min; ISO 527
	@Temperature 120 Â°C	@Temperature 248 Â°F	
Flexural Modulus	4.60 GPa	667 ksi	1 mm/min; ISO 527
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
Flexural Modulus	5.79 GPa	840 ksi	1.3 mm/min, 50 mm span; ASTM D790
	5.90 GPa	856 ksi	2 mm/min, 64mm span; ISO 178

Mechanical Properties	4.20 GPa Metric	600 lbf English	Comments 2 mm/min, 54mm span; ISO 178
	@Temperature 80.0 Â°C	@Temperature 176 Â°F	
Izod Impact, Notched (ISO)	15.0 kJ/mÂ²	7.14 ft-lb/inÂ²	80*10*4mm, Cut; ISO 180/1A
Charpy Impact, Notched	1.90 J/cmÂ²	9.04 ft-lb/inÂ²	80*10*4mm, Cut; ISO 179/1eA
	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	80*10*4mm, Cut; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	156 Â°C	313 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	

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