

Sax Polymers SAXLAC 108 GF17 Acrylonitrile Butadiene Styrene, 17% Glass Fiber

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 20% Glass Fiber Filled

Material Notes:

Saxalac 108 GF17 is a 17% glass fiber reinforced ABS injection molding grade, characterized by high impact strength, high stiffness and good resistance to heat distortion. Mechanical property data tested at 50% RH. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXLAC-108-GF17-Acrylonitrile-Butadiene-Styrene-17-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	
Melt Flow	9.0 g/10 min @Load 10.0 kg, Temperature 220 Â°C	9.0 g/10 min @Load 22.0 lb, Temperature 428 Â°F	from MVR; ISO 1033

Mechanical Properties	Metric	English	Comments
Tensile Strength	90.0 MPa	13100 psi	ISO 527-1
Elongation at Break	2.0 %	2.0 %	ISO 527-1
Tensile Modulus	6.30 GPa	914 ksi	ISO 527-1
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature -30.0 Â°C	2.38 ft-lb/in ² @Temperature -22.0 Â°F	ISO 180/1A
	7.00 kJ/m ² @Temperature 23.0 Â°C	3.33 ft-lb/in ² @Temperature 73.4 Â°F	ISO 180/1A
Izod Impact, Unnotched (ISO)	15.0 kJ/m ² @Temperature -30.0 Â°C	7.14 ft-lb/in ² @Temperature -22.0 Â°F	ISO 180
	18.0 kJ/m ² @Temperature 23.0 Â°C	8.57 ft-lb/in ² @Temperature 73.4 Â°F	ISO 180
Charpy Impact Unnotched	1.40 J/cm ² @Temperature -30.0 Â°C	6.66 ft-lb/in ² @Temperature -22.0 Â°F	ISO 179/1eU
	1.70 J/cm ²		

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact, Notched	0.500 J/cmÅ²	2.38 ft-lb/inÅ²	ISO 179/1eA
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	0.700 J/cmÅ²	3.33 ft-lb/inÅ²	ISO 179/1eA
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	98.0 Å°C	208 Å°F	IE/CEN 60335-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Deflection Temperature at 1.8 MPa (264 psi)	97.0 Å°C	207 Å°F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	104 Å°C	219 Å°F	50B; ISO 306
Glow Wire Test	750 Å°C	1380 Å°F	IE/CEN 60695-2-12

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 Å°C	428 - 500 Å°F	
Mold Temperature	60.0 - 90.0 Å°C	140 - 194 Å°F	
Drying Temperature	80.0 Å°C	176 Å°F	
	@Time 7200 - 14400 sec	@Time 2.00 - 4.00 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	

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