

Sax Polymers SAXLAC 420HI Acrylonitrile Butadiene Styrene

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

Saxalac 420HI is a flame retardant, very high flow ABS injection molding grade, characterized by good processability and high stiffness. 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-420HI-Acrylonitrile-Butadiene-Styrene.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	7.0 g/10 min	7.0 g/10 min	from MVR; ISO 1033
	@Load 5.00 kg, Temperature 220 Â°C	@Load 11.0 lb, Temperature 428 Â°F	
	60 g/10 min	60 g/10 min	from MVR; ISO 1033
	@Load 10.0 kg, Temperature 220 Â°C	@Load 22.0 lb, Temperature 428 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength	40.0 MPa	5800 psi	ISO 527-1
Elongation at Break	15 %	15 %	ISO 527-1
Tensile Modulus	2.30 GPa	334 ksi	ISO 527-1
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	ISO 180
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	70.0 kJ/m ²	33.3 ft-lb/in ²	ISO 180
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	4.20 J/cm ²	20.0 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	Metric @Temperature -30.0 Â°C	English @Temperature -22.0 Â°F	Comments
	6.50 J/cmÂ²	30.9 ft-lb/inÂ²	ISO 179/1eU
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	0.400 J/cmÂ²	1.90 ft-lb/inÂ²	ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	0.900 J/cmÂ²	4.28 ft-lb/inÂ²	ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	80.0 Â°C	176 Â°F	IE/CEN 60335-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Deflection Temperature at 1.8 MPa (264 psi)	82.0 Â°C	180 Â°F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	93.0 Â°C	199 Â°F	50B; ISO 306
Flammability, UL94	V-0	V-0	
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Glow Wire Test	750 Â°C	1380 Â°F	IE/CEN 60695-2-12

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

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