

## Sax Polymers SAXLAC 120U Acrylonitrile Butadiene Styrene

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

### Material Notes:

Saxalac 120U is an UV protected easy flowing 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-120U-Acrylonitrile-Butadiene-Styrene.php](http://www.lookpolymers.com/polymer_Sax-Polymers-SAXLAC-120U-Acrylonitrile-Butadiene-Styrene.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	20 g/10 min @Load 10.0 kg, Temperature 220 °C	20 g/10 min @Load 22.0 lb, Temperature 428 °F	from MVR; ISO 1033

Mechanical Properties	Metric	English	Comments
Tensile Strength	48.0 MPa	6960 psi	ISO 527-1
Elongation at Break	7.0 %	7.0 %	ISO 527-1
Tensile Modulus	2.30 GPa	334 ksi	ISO 527-1
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180/1A
	27.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	12.8 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	70.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	33.3 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180
	100 kJ/m <sup>2</sup> @Temperature 23.0 °C	47.6 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	6.50 J/cm <sup>2</sup> @Temperature -30.0 °C	30.9 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	10.0 J/cm <sup>2</sup>	47.6 ft-lb/in <sup>2</sup>	ISO 179/1eU

Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English °F	Comments
Charpy Impact, Notched	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.20 J/cm <sup>2</sup>	10.5 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	96.0 °C	205 °F	IE/CEN 60335-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	99.0 °C	210 °F	50B; ISO 306
Glow Wire Test	650 °C	1200 °F	IE/CEN 60695-2-12

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

## Contact Songhan Plastic Technology Co.,Ltd.

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