

## Sax Polymers SAXLAC 310U Acrylonitrile Butadiene Styrene

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

### Material Notes:

Saxalac 310U is an antistatic, high impact resistant and light stabilized 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-310U-Acrylonitrile-Butadiene-Styrene.php](http://www.lookpolymers.com/polymer_Sax-Polymers-SAXLAC-310U-Acrylonitrile-Butadiene-Styrene.php)

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in <sup>3</sup>	
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	7.0 g/10 min @Load 10.0 kg, Temperature 220 °C	7.0 g/10 min @Load 22.0 lb, Temperature 428 °F	from MVR; ISO 1033

Mechanical Properties	Metric	English	Comments
Tensile Strength	40.0 MPa	5800 psi	ISO 527-1
Elongation at Break	4.0 %	4.0 %	ISO 527-1
Tensile Modulus	1.90 GPa	276 ksi	ISO 527-1
Izod Impact, Notched (ISO)	15.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	7.14 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180/1A
	30.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	14.3 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	100 kJ/m <sup>2</sup> @Temperature 23.0 °C	47.6 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180
	100 kJ/m <sup>2</sup> @Temperature -30.0 °C	47.6 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180
Charpy Impact Unnotched	10.0 J/cm <sup>2</sup> @Temperature 23.0 °C	47.6 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
	10.0 J/cm <sup>2</sup>	47.6 ft-lb/in <sup>2</sup>	ISO 179/1eU

Mechanical Properties	Metric @Temperature -30.0 Â°C	English @Temperature -22.0 Â°F	Comments
Charpy Impact, Notched	1.40 J/cmÂ²	6.66 ft-lb/inÂ²	ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	2.80 J/cmÂ²	13.3 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	95.0 Â°C	203 Â°F	IE/CEN 60335-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Deflection Temperature at 1.8 MPa (264 psi)	92.0 Â°C	198 Â°F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	96.0 Â°C	205 Â°F	50B; ISO 306
Flammability, UL94	HB	HB	
Glow Wire Test	650 Â°C	1200 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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