

Sax Polymers SAXLAC 310A Acrylonitrile Butadiene Styrene

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

Material Notes:

Saxalac 310A is a medium viscosity, impact resistant 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-310A-Acrylonitrile-Butadiene-Styrene.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength	50.0 MPa	7250 psi	ISO 527-1
Elongation at Break	10 %	10 %	ISO 527-1
Tensile Modulus	2.50 GPa	363 ksi	ISO 527-1
Izod Impact, Notched (ISO)	10.0 kJ/m ² @Temperature -30.0 Â°C	4.76 ft-lb/in ² @Temperature -22.0 Â°F	ISO 180/1A
	25.0 kJ/m ² @Temperature 23.0 Â°C	11.9 ft-lb/in ² @Temperature 73.4 Â°F	ISO 180/1A
Izod Impact, Unnotched (ISO)	90.0 kJ/m ² @Temperature -30.0 Â°C	42.8 ft-lb/in ² @Temperature -22.0 Â°F	ISO 180
	100 kJ/m ² @Temperature 23.0 Â°C	47.6 ft-lb/in ² @Temperature 73.4 Â°F	ISO 180
Charpy Impact Unnotched	9.20 J/cm ² @Temperature -30.0 Â°C	43.8 ft-lb/in ² @Temperature -22.0 Â°F	ISO 179/1eU
	10.0 J/cm ²	47.6 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	95.0 Å°C	203 Å°F	IE/CEN 60335-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Deflection Temperature at 1.8 MPa (264 psi)	84.0 Å°C	183 Å°F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	98.0 Å°C	208 Å°F	50B; ISO 306
Glow Wire Test	650 Å°C	1200 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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