

Sax Polymers SAXLAC 835T Acrylonitrile Butadiene Styrene

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

Material Notes:

Saxalac 835T is an antistatic, 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-835T-Acrylonitrile-Butadiene-Styrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	35 g/10 min @Load 10.0 kg, Temperature 220 °C	35 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	10 %	10 %	ISO 527-1
Tensile Modulus	2.40 GPa	348 ksi	ISO 527-1
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	22.0 kJ/m ² @Temperature 23.0 °C	10.5 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	70.0 kJ/m ² @Temperature -30.0 °C	33.3 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	100 kJ/m ² @Temperature 23.0 °C	47.6 ft-lb/in ² @Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	6.50 J/cm ² @Temperature -30.0 °C	30.9 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	10.0 J/cm ² @Temperature 23.0 °C	47.6 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Mechanical Properties	Metric /cm ²	English lb/in ²	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	90.0 °C @Thickness 2.00 mm	194 °F @Thickness 0.0787 in	IE/CEN 60335-1
Deflection Temperature at 1.8 MPa (264 psi)	94.0 °C	201 °F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	95.0 °C	203 °F	50B; ISO 306
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	
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 @Time 7200 - 14400 sec	176 °F @Time 2.00 - 4.00 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	

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