

Sax Polymers SAXATEC 4307 Acrylonitrile Styrene Acrylate

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

Material Notes:

SAXATEC 4307 is a high impact resistant, high viscosity and weatherable ASA injection molding grade, characterized by high mechanical strength and good processability. Information provided by SAX Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sax-Polymers-SAXATEC-4307-Acrylonitrile-Styrene-Acrylate.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 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 @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	45.0 MPa	6530 psi	ISO 527-1
Elongation at Break	15 %	15 %	ISO 527-1
Tensile Modulus	2.20 GPa	319 ksi	ISO 527-1
Izod Impact, Notched (ISO)	16.0 kJ/m ² @Temperature -30.0 °C	7.61 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	25.0 kJ/m ² @Temperature 23.0 °C	11.9 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ² @Temperature -30.0 °C	21.4 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	5.20 J/cm ² @Temperature -30.0 °C	24.7 ft-lb/in ² @Temperature -22.0 °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	1.60 J/cm ²	7.61 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	2.30 J/cm ²	10.9 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	2.30 J/cm ²	10.9 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)	80.0 Å°C	176 Å°F	80*10*4 s=60mm; ISO 75-1 a
Vicat Softening Point	93.0 Å°C	199 Å°F	50B; ISO 306
Glow Wire Test	750 Å°C	1380 Å°F	IEC 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 - 21600 sec	@Time 2.00 - 6.00 hour	
Moisture Content	<= 0.20 %	<= 0.20 %	

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