

SABIC Innovative Plastics LNP STAT-LOY 9X07438 ASA+PC

Category : Polymer , Thermoplastic , ASA Polymer , Polycarbonate (PC) , Polycarbonate/ASA Alloy, Unreinforced

Material Notes:

LNP* STAT-LOY* 9X07438 is a compound based on Polycarbonate/ASA containing Proprietary Filler(s). Added features of this grade include: Antistatic, Colorable, Weatherable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-9X07438-ASAPC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Moisture Absorption	0.620 %	0.620 %	50% RH, 24 hrs; ASTM D570
	1.00 %	1.00 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	5 mm/min; ISO 527
	40.0 MPa	5800 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	5 mm/min; ISO 527
	51.0 MPa	7400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	50 %	50 %	Type I, 5 mm/min; ASTM D638
	77 %	77 %	5 mm/min; ISO 527
Elongation at Yield	4.7 %	4.7 %	5 mm/min; ISO 527
	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.02 GPa	293 ksi	1 mm/min; ISO 527
	2.19 GPa	318 ksi	50 mm/min; ASTM D638
Flexural Strength	60.0 MPa	8700 psi	ISO 178
Flexural Yield Strength	68.0 MPa	9860 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	1.89 GPa	272 ksi	2 mm/min; ISO 178
	2.02 GPa	293 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.77 J/cm	3.32 ft-lb/in	ASTM D256
Izod Impact, Unnotched	16.9 J/cm	31.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	180 kJ/m ²	85.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	27.0 J @Temperature 23.0 Â°C	19.9 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	27.0 J	19.9 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	40.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	91.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	50.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	106 Â°C	223 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	105 Â°C @Thickness 3.20 mm	221 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	89.0 Â°C	192 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	88.0 Â°C @Thickness 3.20 mm	190 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+10 - 1.00e+12 ohm	1.00e+10 - 1.00e+12 ohm	ASTM D257

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