

SABIC Innovative Plastics LNP Stat-loy 9X05426C PMMA (Asia Pacific)

Category : Polymer , Thermoplastic , Acrylic (PMMA)

Material Notes:

LNP* Stat-loy* 9X05426C is a compound based on PMMA resin containing Anti-Static. Added features of this material include: Antistat. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-loy-9X05426C-PMMA-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
	1.14 g/cc	0.0412 lb/in ³	ASTM D 792
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0082 cm/cm	0.0082 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0098 cm/cm	0.0098 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.010 cm/cm	0.010 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	ISO 527
	40.0 MPa	5800 psi	ASTM D 638
Tensile Strength, Yield	42.0 MPa	6090 psi	ASTM D 638
	42.0 MPa	6090 psi	ISO 527
Elongation at Break	18.4 %	18.4 %	ASTM D 638
	20.3 %	20.3 %	ISO 527
Elongation at Yield	6.2 %	6.2 %	ISO 527
	6.7 %	6.7 %	ASTM D 638
Tensile Modulus	1.47 GPa	213 ksi	1 mm/min; ISO 527
	1.75 GPa	254 ksi	50 mm/min; ASTM D 638

Flexural Strength Mechanical Properties	44.0 MPa Metric	6380 psi English	ISO 178 Comments
	55.0 MPa	7980 psi	ASTM D 790
Flexural Modulus	1.41 GPa	205 ksi	ISO 178
	1.66 GPa	241 ksi	ASTM D 790
Izod Impact, Notched	0.320 J/cm @Temperature 23.0 Â°C	0.599 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	5.39 J/cm @Temperature 23.0 Â°C	10.1 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ² @Temperature 23.0 Â°C	1.90 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/mÂ² @Temperature 23.0 Â°C	21.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J @Temperature 23.0 Â°C	1.48 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	101 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	56.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	101 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	56.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	108 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	60.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	109 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	60.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	79.0 Â°C	174 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	79.0 Â°C @Thickness 3.20 mm	174 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	79.9 Â°C	156 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/A1
	67.0 Â°C	153 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 - 1.00e+11 ohm-cm	1.00e+9 - 1.00e+11 ohm-cm	ASTM D 257
Surface Resistance	1.00e+9 - 1.00e+11 ohm	1.00e+9 - 1.00e+11 ohm	ASTM D 257

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