LNP™ STAT-LOY™ Compound N30009

Asia Pacific: COMMERCIAL

Also known as: LNP™ STAT-LOY™ Compound PCA-FR
Product reorder name: N30009

LNP STAT-LOY N30009 is a compound based on PC+ABS Blend resin containing Flame Retardant, Anti-Static. Added features of this material include: Antistat, Flame Retardant.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	560	kgf/cm²	ASTM D 638
Tensile Stress, break	500	kgf/cm²	ASTM D 638
Tensile Strain, yield	5	%	ASTM D 638
Tensile Strain, break	100	%	ASTM D 638
Tensile Modulus, 50 mm/min	22000	kgf/cm²	ASTM D 638
Flexural Stress	860	kgf/cm²	ASTM D 790
Flexural Modulus	22000	kgf/cm²	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	65	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	387	cm-kgf	ASTM D 3763
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	100	°C	ASTM D 648
PHYSICAL			
Density	1.26	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.53 - 0.65	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.53 - 0.65	%	ASTM D 955
ELECTRICAL			
Surface Resistivity	1.E+11 - 1.E+00	Ohm	ASTM D 257
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	1.5	mm	UL 94 by SABIC-IP

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

LNP™ STAT-LOY™ Compound N30009

Asia Pacific: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	200 - 230	°C
Front - Zone 3 Temperature	220 - 230	°C
Middle - Zone 2 Temperature	210 - 220	°C
Rear - Zone 1 Temperature	200 - 210	°C
Mold Temperature	40 - 55	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated: