



LNP™ STAT-LOY™ Compound SLWM2105

Asia Pacific: COMMERCIAL

Anti-static PBT/PC blend, mineral 5% filled product

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	470	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	470	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 10 mm/min	20	%	SABIC - Japan Method
Tensile Strain, brk, Type I, 10 mm/min	20	%	SABIC - Japan Method
Tensile Modulus, 5 mm/min	24600	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	780	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	23400	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	4	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -30°C	-	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	-	cm-kgf	ASTM D 3763
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	161	°C	ASTM D 648
CTE, -40°C to 40°C, flow	-	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	-	1/°C	ASTM E 831
PHYSICAL			
Specific Gravity	1.32	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm (5)	1.5 - 1.8	%	SABIC Method
Melt Flow Rate, 250°C/1.2 kgf	30	g/10 min	ASTM D 1238
ELECTRICAL			
Surface Resistivity	-9.E+12	Ohm	ASTM D 257

(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:
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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	110	°C
Drying Time	3 - 5	hrs
Melt Temperature	230 - 260	°C
Nozzle Temperature	240 - 260	°C
Front - Zone 3 Temperature	240 - 260	°C
Middle - Zone 2 Temperature	230 - 250	°C
Rear - Zone 1 Temperature	220 - 240	°C
Mold Temperature	30 - 60	°C

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