

LNPTM STAT-LOYTM COMPOUND YX02589C

PDX-Y-02589 CCS

DESCRIPTION

LNP STAT-LOY YX02589C compound is based on Polyester Elastomer resin containing proprietary fillers. Added features of this grade include: Permanently Anti-Static, LNP Clean Compounding Technology.

GENERAL INFORMATION

Features	Antistatic, Low ionics/Outgassing/Liquid particle count, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Thermoplastic Polyester Elastomer (TPEE)
Processing Techniques	Injection Molding

INDUSTRY

Electrical and Electronics
Industrial

SUB INDUSTRY

Electronic Components, Mobile Phone - Computer - Tablets
Electrical, Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yld, Type I, 5 mm/min	6	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	71.4	%	ASTM D638
Tensile Modulus, 5 mm/min	30	MPa	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span	40	MPa	ASTM D790
Tensile Stress, yield, 5 mm/min	6	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	161.7	%	ISO 527
Tensile Modulus, 1 mm/min	40	MPa	ISO 527
Flexural Stress	2	MPa	ISO 178
Flexural Modulus, 2 mm/min	40	MPa	ISO 178
IMPACT ⁽¹⁾			
Multiaxial Impact	25	J	ISO 6603
Instrumented Dart Impact Total Energy, 23°C	18	J	ASTM D3763
THERMAL ⁽¹⁾			
CTE, -30°C to 30°C, flow	2.45E-04	1/°C	ASTM D696
CTE, -30°C to 30°C, xflow	2.89E-04	1/°C	ASTM D696
PHYSICAL ⁽¹⁾			
Specific Gravity	1.08	-	ASTM D792
Density	1.086	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	5.5	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.61	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.65	%	ASTM D955
Moisture Absorption (23°C / 50% RH)	8.5	%	ISO 62

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CHEMISTRY THAT MATTERS™

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
ELECTRICAL ⁽¹⁾			
Surface Resistivity ⁽³⁾	1.E+10 – 1.E+13	Ω	ASTM D257
INJECTION MOLDING ⁽⁴⁾			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.1	%	
Melt Temperature	215 – 240	°C	
Front - Zone 3 Temperature	225 – 240	°C	
Middle - Zone 2 Temperature	205 – 215	°C	
Rear - Zone 1 Temperature	180 – 195	°C	
Mold Temperature	25 – 55	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) 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.
- (3) Measurement meets requirements as specified in ASTM D4496.
- (4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

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