LNP™ STAT-LOY™ COMPOUND 93000LTH

93000LTH

DESCRIPTION

LNP STAT-LOY 93000LTH compound is based on Acrylic resin containing proprietary additives. Added features of this grade include: Permanently Anti-Static, Transparent and Healthcare.

GENERAL INFORMATION	
Features	Antistatic, Transparent/Translucent, Healthcare/Formula lock, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Acrylic, Polymethyl Methacrylate (Acrylic (PMMA))
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Hygiene and Healthcare	Pharmaceutical Packaging and Drug Delivery, Surgical devices, General Healthcare, Patient Testing
Packaging	Industrial Packaging

TYPICAL PROPERTY VALUES

Revision 20241028

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, brk, Type I, 5 mm/min	40	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	7	%	ASTM D638
Tensile Modulus, 5 mm/min	1780	MPa	ASTM D638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	47	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	1470	MPa	ASTM D790
IMPACT [1]			
Izod Impact, unnotched, 23°C	667	J/m	ASTM D4812
Izod Impact, notched, 23°C	40	J/m	ASTM D256
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	66	°C	ASTM D648
PHYSICAL [1]			
Specific Gravity	1.15	-	ASTM D792
ELECTRICAL [1]			
Volume Resistivity [2]	1.E+09 – 1.E+11	Ω.cm	ASTM D257
Surface Resistivity [2]	1.E+09 – 1.E+11	Ω	ASTM D257
Static Decay, 5000V to <50V	<1	Seconds	FTMS101B
INJECTION MOLDING [3]			
Drying Temperature	70 – 80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.05 – 0.1	%	
Melt Temperature	200 – 210	°C	
Front - Zone 3 Temperature	205 – 215	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Middle - Zone 2 Temperature	195 – 205	°C	
Rear - Zone 1 Temperature	180 – 195	°C	
Mold Temperature	10 – 50	°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) Measurement meets requirements as specified in ASTM D4496.

(3) 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.

DISCLAIMER