

LNP™ STAT-LOY™ COMPOUND SLDM2005

REGION ASIA

DESCRIPTION

Antistatic Polycarbonate, Non Halogen FR V-2 grade, mineral 5% filled

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	54	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	46	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	4	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	72	%	ASTM D 638
Tensile Modulus, 5 mm/min	2830	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	84	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2350	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	53	MPa	ISO 527
Tensile Stress, break, 5 mm/min	46	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	4	%	ISO 527
Tensile Strain, break, 5 mm/min	46	%	ISO 527
Tensile Modulus, 1 mm/min	2600	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	88	MPa	ISO 178
Flexural Modulus, 2 mm/min	2630	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	294	J/m	ASTM D 256
Izod Impact, notched, -30°C	0	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	0	J	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	0	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	0	kJ/m ²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	0	kJ/m ²	ISO 179/1eA
THERMAL			
Vicat Softening Temp, Rate B/50	0	°C	ASTM D 1525
HDT, 1.82 MPa, 3.2mm, unannealed	99	°C	ASTM D 648
CTE, -40°C to 40°C, flow	0.E+00	1/°C	ASTM E 831

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -40°C to 40°C, xflow	0.E+00	1/°C	ASTME 831
CTE, -40°C to 40°C, flow	0.E+00	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	0.E+00	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	0	°C	ISO 306
Vicat Softening Temp, Rate B/120	0	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	0	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.25	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm (5)	0.4 – 0.6	%	SABIC method
Melt Flow Rate, 260°C/2.16 kgf	17	g/10 min	ASTM D 1238
Density	0	g/cm ³	ISO 1183
Water Absorption, (23°C/sat)	0.6	%	ISO 62
Moisture Absorption (23°C / 50% RH)	0.03	%	ISO 62
Melt Volume Rate, MVR at 220°C/5.0 kg	0	cm ³ /10 min	ISO 1133
ELECTRICAL			
Surface Resistivity	5.E+12	Ohm	ASTM D 257
FLAME CHARACTERISTICS			
UL Compliant, 94V-2 Flame Class Rating (3)(4)	2	mm	UL 94 by SABIC-IP
INJECTION MOLDING			
Drying Temperature	90 – 100	°C	
Drying Time	4 – 6	hrs	
Drying Time (Cumulative)	8	hrs	
Maximum Moisture Content	0.04	%	
Melt Temperature	240 – 260	°C	
Nozzle Temperature	230 – 260	°C	
Front - Zone 3 Temperature	230 – 260	°C	
Middle - Zone 2 Temperature	220 – 255	°C	
Rear - Zone 1 Temperature	220 – 245	°C	
Mold Temperature	30 – 70	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	30 – 80	%	
Vent Depth	0.38 – 0.76	mm	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties. It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its



and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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