LNP™ STAT-LOY™ COMPOUND AF3009

AF-FR
REGION ASIA

DESCRIPTION

LNP STAT-LOY AF3009 is a compound based on ABS resin containing 10% Glass Fiber. Added features of this material include: Antistatic, Flame Retardant.

TYPICAL PROPERTY VALUES

Revision 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	43	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	42	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.8	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2	%	ASTM D 638
Tensile Modulus, 50 mm/min	4130	MPa	ASTM D 638
Flexural Stress	55	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	59	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	3450	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	43	MPa	ISO 527
Tensile Stress, break, 5 mm/min	42	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.8	%	ISO 527
Tensile Strain, break, 5 mm/min	1.9	%	ISO 527
Tensile Modulus, 1 mm/min	3620	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	61	MPa	ISO 178
Flexural Modulus, 2 mm/min	3200	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	224	J/m	ASTM D 4812
Izod Impact, notched, 23°C	32	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	4	J	ASTM D 3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	15	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	96	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	87	°C	ASTM D 648
CTE, -40°C to 40°C, flow	9.36E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.12E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	9.4E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.2E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, flow	9.4E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	6.2E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	98	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	90	°C	ISO 75/Af

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL			
Density	1.31	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.8 – 1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.9 – 1.1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.93	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1	%	ISO 294
Density	1.31	g/cm³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+10 – 1.E+12	Ohm	ASTM D 257
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating	1.5	mm	UL 94 by SABIC-IP
UL Recognized, 94V-0 Flame Class Rating	1.5	mm	UL 94
INJECTION MOLDING			
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	
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	

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