



LNP™ STAT-LOY™ Compound PF303

Americas: COMMERCIAL

Also known as: LNP™ STAT-LOY™ Compound PF-15

Product reorder name: PF303

LNP STAT-LOY PF303 is a Nylon 6 base resin containing 15% Glass Fiber. Added features of this grade includes: Antistat.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	830	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	750	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.2	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	57300	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1230	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1220	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	43300	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	72	MPa	ISO 527
Tensile Stress, break, 5 mm/min	68	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.3	%	ISO 527
Tensile Strain, break, 5 mm/min	2.8	%	ISO 527
Tensile Modulus, 1 mm/min	4740	MPa	ISO 527
Flexural Stress	103	MPa	ISO 178
Flexural Modulus, 2 mm/min	4250	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	76	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	9	cm-kgf/cm	ASTM D 256
Multiaxial Impact	29	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	107	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	44	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1A



LNP™ STAT-LOY™ Compound PF303

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	207	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	188	°C	ASTM D 648
CTE, -30°C to 30°C, flow	3.1E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.37E-04	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	204	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	181	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.25	-	ASTM D 792
Density	1.25	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.5 - 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.9 - 2	%	ASTM D 955
Density	1.24	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	6.6	%	ISO 62
ELECTRICAL			
Surface Resistivity	9.E+00 - 1.1E+01	Ohm	ASTM D 257



LNP™ STAT-LOY™ Compound PF303

Americas: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	265 - 275	°C
Front - Zone 3 Temperature	275 - 290	°C
Middle - Zone 2 Temperature	265 - 275	°C
Rear - Zone 1 Temperature	250 - 260	°C
Mold Temperature	80 - 95	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	30 - 60	rpm