



LNP™ COLORCOMP™ Compound J1000AE

Americas: COMMERCIAL

Also known as: LNP™ COLORCOMP™ Compound J-1000 EM

Product reorder name: J1000AE

LNP COLORCOMP J1000AE is an unfilled Polyethersulfone. Added feature of this grade is: Easy Molding.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	900	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	6.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	27400	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1270	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	26700	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	200	°C	ASTM D 648
CTE, -30°C to 30°C, flow	5.2E-05	1/°C	ASTM D 696
PHYSICAL			
Specific Gravity	1.37	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.5	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.6	%	ASTM D 955
ELECTRICAL			
Volume Resistivity	1.75E+15	Ohm-cm	ASTM D 257
Dissipation Factor, 50/60 Hz	0.0017	-	ASTM D 150
Dissipation Factor, 1 kHz	0.0022	-	ASTM D 150
Dissipation Factor, 1 MHz	0.0056	-	ASTM D 150
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating (3)	1.5	mm	UL 94



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	355 - 370	°C
Front - Zone 3 Temperature	370 - 380	°C
Middle - Zone 2 Temperature	360 - 370	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	140 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm