



LNP™ LUBRICOMP™ Compound DCI06APW

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound DCI06APW

Product reorder name: DCI06APW

LNP™ LUBRICOMP™ DCI06APW is a compound based on Polycarbonate resin containing Carbon Fiber. Added features of this material include: Electrically Conductive, High Flow.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	1930	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.5	%	ASTM D 638
Tensile Modulus, 5 mm/min	239600	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2650	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	210400	kgf/cm ²	ASTM D 790
Compressive Strength	128	MPa	SABIC Method
Shear Strength	938	kgf/cm ²	ASTM C 273
Shear Modulus	35770	kgf/cm ²	ASTM C 273
IMPACT			
Izod Impact, unnotched, 23°C	68	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	11	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	171	cm-kgf	ASTM D 3763
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	128	°C	ASTM D 648
CTE, -30°C to 30°C, flow	9.7E-06	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	4.6E-05	1/°C	ASTM D 696
PHYSICAL			
Specific Gravity	1.3	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.11	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.05 - 0.15	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.15 - 0.4	%	ASTM D 955
Melt Volume Rate, MVR at 300°C/5.0 kg	28	cm ³ /10 min	ASTM D 1238
ELECTRICAL			
Surface Resistivity	1.E+03	Ohm	ASTM D 257



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Front - Zone 3 Temperature	285 - 300	°C
Middle - Zone 2 Temperature	275 - 290	°C
Rear - Zone 1 Temperature	270 - 285	°C
Mold Temperature	100 - 120	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	40 - 80	rpm