



LNP* Lubricomp* Compound YL003C

Asia Pacific: COMMERCIAL

LUBRICOMP* YL-4030 CCS is a PTFE Lubricated Compound based on Polyester Elastomer resin which has low ionic and low outgassing performance for the Semicon and Internal Hard Disk Drive applications.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, break	220	kgf/cm ²	ASTM D 638
Tensile Strain, break	90	%	ASTM D 638
Tensile Modulus, 50 mm/min	2800	kgf/cm ²	ASTM D 638
Flexural Stress	190	kgf/cm ²	ASTM D 790
Flexural Modulus	2900	kgf/cm ²	ASTM D 790
Hardness, Shore D	56	-	ASTM D 2240
Tensile Strain, break, 50 mm/min	>450	%	ISO 527
Tensile Modulus, 1 mm/min	260	MPa	ISO 527
Flexural Stress	12	MPa	ISO 178
Flexural Modulus	280	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	59	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	15	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*3 +23°C	48	kJ/m ²	ISO 180/1U
Izod Impact, unnotched 80*10*4 +23°C	23	kJ/m ²	ISO 180/1U
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	85	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	54	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.1E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.8E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.1E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.8E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	88	°C	ISO 75/Bf



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	57	°C	ISO 75/Af
PHYSICAL			
Density	1.27	g/cm ³	ASTM D 792
Water Absorption, 23°C/48hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.5 - 1.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.7 - 1.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.6	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.8	%	ISO 294
Density	1.27	g/cm ³	ISO 1183
Water Absorption, (23°C/sat)	0.5	%	ISO 62
FLAME CHARACTERISTICS			
UL Recognized, 94HB Flame Class Rating (3)	1	mm	UL 94



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PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.1	%
Melt Temperature	215 - 240	°C
Front - Zone 3 Temperature	225 - 240	°C
Middle - Zone 2 Temperature	205 - 215	°C
Rear - Zone 1 Temperature	180 - 195	°C
Mold Temperature	25 - 55	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm