

LNP* Lubricomp* Compound YL003C

Americas: 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.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, break	22	MPa	ASTM D 638
Tensile Strain, break	90	%	ASTM D 638
Tensile Modulus, 50 mm/min	280	MPa	ASTM D 638
Flexural Stress	19	MPa	ASTM D 790
Flexural Modulus	290	MPa	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	Value	Unit	Standard
Izod Impact, unnotched, 23°C	580	J/m	ASTM D 4812
Izod Impact, notched, 23°C	150	J/m	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	Value	Unit	Standard
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
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	57	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
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	Value	Unit	Standard
UL Recognized, 94HB Flame Class Rating (3)	1	mm	UL 94

Source GMD, last updated:02/07/2008

Processing

Parameter	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

Source GMD, last updated:02/07/2008

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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