



LNP™ LUBRICOMP™ Compound YL003

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound YL-4030

Product reorder name: YL003

LNP* LUBRICOMP* YL003 is a compound based on Polyester Elastomer resin containing 15% PTFE. Added feature of this grade is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	430	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	14.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	2400	kgf/cm ²	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	2400	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	14	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	43.5	%	ISO 527
Tensile Modulus, 1 mm/min	240	MPa	ISO 527
Flexural Modulus, 2 mm/min	220	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	46	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	31	cm-kgf/cm	ASTM D 256
Multiaxial Impact	247	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	261	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	42	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	35	kJ/m ²	ISO 180/1A
THERMAL			
CTE, -30°C to 30°C, flow	1.72E-04	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.88E-04	1/°C	ASTM D 696
PHYSICAL			
Specific Gravity	1.28	-	ASTM D 792
Density	1.27	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.33	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1 - 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1 - 3	%	ASTM D 955



LNP™ LUBRICOMP™ Compound YL003

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL Moisture Absorption (23°C / 50% RH)	0.47	%	ISO 62



LNP™ LUBRICOMP™ Compound YL003

Americas: COMMERCIAL

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