



LNP™ LUBRICOMP™ Compound FX86496

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound PDX-F-86496

Product reorder name: FX86496

LNP™ LUBRICOMP™ FX86496 is a compound based on Polyethylene containing Proprietary Filler(s). Added feature of this grade is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	90	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	90	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	10	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	21.6	%	ASTM D 638
Tensile Modulus, 5 mm/min	6000	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	90	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	4100	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	9	MPa	ISO 527
Tensile Stress, break, 5 mm/min	9	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	9.9	%	ISO 527
Tensile Strain, break, 5 mm/min	19.8	%	ISO 527
Tensile Modulus, 1 mm/min	420	MPa	ISO 527
Flexural Stress	9	MPa	ISO 178
Flexural Modulus, 2 mm/min	280	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	47	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	49	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	58	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	45	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.82E-04	1/°C	ASTM D 696



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -30°C to 30°C, xflow	1.66E-04	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	51	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	40	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.05	-	ASTM D 792
Density	1.047	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.9	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.01	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	230	°C
Front - Zone 3 Temperature	220 - 230	°C
Middle - Zone 2 Temperature	210 - 220	°C
Rear - Zone 1 Temperature	195 - 205	°C
Mold Temperature	40 - 55	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm