



LNP™ LUBRICOMP™ Compound WFL369

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound WFL-4036 FR-1

Product reorder name: WFL369

LNP™ Lubricomp™ WFL369 is a compound based on Polybutylene Terephthalate resin containing Glass Fiber, PTFE, Flame Retardant. Added features of this material include: Internally Lubricated, Flame Retardant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	1070	kgf/cm ²	ASTM D 638
Tensile Stress, break	1040	kgf/cm ²	ASTM D 638
Tensile Strain, yield	2.1	%	ASTM D 638
Tensile Strain, break	2.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	126500	kgf/cm ²	ASTM D 638
Flexural Stress	1610	kgf/cm ²	ASTM D 790
Flexural Modulus	105400	kgf/cm ²	ASTM D 790
Tensile Stress, yield	106	MPa	ISO 527
Tensile Stress, break	106	MPa	ISO 527
Tensile Strain, yield	2	%	ISO 527
Tensile Strain, break	2	%	ISO 527
Tensile Modulus, 1 mm/min	11200	MPa	ISO 527
Flexural Stress	161	MPa	ISO 178
Flexural Modulus	8900	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	68	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	69	cm-kgf	ASTM D 3763
Multiaxial Impact	23	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	37	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	221	°C	ASTM D 648



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THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	207	°C	ASTM D 648
CTE, -40°C to 40°C, flow	7.02E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.88E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	7.E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.9E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	221	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	207	°C	ISO 75/Af
PHYSICAL			
Density	1.78	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.4 - 0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.4 - 1.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.51	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.5	%	ISO 294
Wear Factor Washer	25	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.53	-	ASTM D 3702 Modified
Static COF	0.41	-	ASTM D 3702 Modified
Density	1.78	g/cm ³	ISO 1183
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	1.5	mm	UL 94 by SABIC-IP



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	245 - 260	°C
Front - Zone 3 Temperature	250 - 260	°C
Middle - Zone 2 Temperature	245 - 255	°C
Rear - Zone 1 Temperature	230 - 245	°C
Mold Temperature	80 - 100	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm