LNP™ LUBRILOY™ COMPOUND D2000I

D-HI

DESCRIPTION

LNP LUBRILOY D2000I compound is based on Polycarbonate (PC) resin containing proprietary lubricant. Added features of this grade include: Wear Resistant, High Impact.

GENERAL INFORMATION	
Features	Wear resistant, Impact resistant, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polycarbonate (PC)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20230607

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yield	49	MPa	ASTM D638
Tensile Stress, break	54	MPa	ASTM D638
Tensile Strain, yield	5.6	%	ASTM D638
Tensile Strain, break	130	%	ASTM D638
Flexural Stress	68	MPa	ASTM D790
Flexural Modulus	1860	MPa	ASTM D790
IMPACT [1]			
Izod Impact, unnotched, 23°C	1762	J/m	ASTM D4812
Izod Impact, notched, 23°C	779	J/m	ASTM D256
Izod Impact, notched, -40°C	542	J/m	ASTM D256
Izod Impact, notched 80*10*4 -40°C	43	kJ/m²	ISO 180/1A
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	120	°C	ASTM D648
CTE, -40°C to 40°C, flow	1.31E-04	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	1.35E-04	1/°C	ASTM E831
CTE, -40°C to 40°C, flow	8.01E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.54E-05	1/°C	ISO 11359-2
Relative Temp Index, Elec [2]	80	°C	UL 746B
Relative Temp Index, Mech w/impact [2]	80	°C	UL 746B
Relative Temp Index, Mech w/o impact [2]	80	°C	UL 746B

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL [1]			
Density	1.17	g/cm³	ASTM D792
Wear Factor Washer	35	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.32	-	ASTM D3702 Modified: Manual
Static COF	0.22	-	ASTM D3702 Modified: Manual
FLAME CHARACTERISTICS [2]			
UL Yellow Card Link	E121562-101283871	-	-
UL Yellow Card Link 2	E207780-101283841	-	-
UL Recognized, 94HB Flame Class Rating	1.2	mm	UL 94
INJECTION MOLDING [3]			
Drying Temperature	100	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	290 – 315	°C	
Front - Zone 3 Temperature	280 – 310	°C	
Middle - Zone 2 Temperature	280 – 300	°C	
Rear - Zone 1 Temperature	275 – 300	°C	
Mold Temperature	65 – 95	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

MORE INFORMATION

For curve data and CAE cards, please visit and register at https://materialfinder.sabic-specialties.com

DISCLAIMER