

LNP* Lubriloy* Compound Z2000

Americas: COMMERCIAL

Also known as: Z

Product Reorder Name: Z2000

LNP* Lubriloy* Z2000 is a compound based on PPE+PS Blend resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yield	46	MPa	ASTM D 638
Tensile Stress, break	42	MPa	ASTM D 638
Tensile Strain, yield	4.2	%	ASTM D 638
Tensile Strain, break	52.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	1820	MPa	ASTM D 638
Flexural Stress	74	MPa	ASTM D 790
Flexural Modulus	2080	MPa	ASTM D 790
Tensile Stress, yield	38	MPa	ISO 527
Tensile Stress, break	41	MPa	ISO 527
Tensile Strain, yield	3.2	%	ISO 527
Tensile Strain, break	37.3	%	ISO 527
Tensile Modulus, 1 mm/min	1810	MPa	ISO 527
Flexural Stress	58	MPa	ISO 178
Flexural Modulus	1860	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	2034	J/m	ASTM D 4812
Izod Impact, notched, 23°C	106	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	172	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	11	kJ/m ²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	140	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	121	°C	ASTM D 648
CTE, -40°C to 40°C, flow	8.19E-05	1/°C	ASTM E 831

CTE, -40°C to 40°C, xflow	8.89E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	8.2E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.9E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	138	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	120	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.04	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.06	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.89	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.15	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.89	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.15	%	ISO 294
Wear Factor Washer	121	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.19	-	ASTM D 3702 Modified
Static COF	0.24	-	ASTM D 3702 Modified
Density	1.04	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.07	%	ISO 62

Source GMD, last updated:09/30/2004

Processing

Parameter		
Injection Molding	Value	Unit
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	275 - 295	°C
Front - Zone 3 Temperature	265 - 275	°C
Middle - Zone 2 Temperature	260 - 270	°C
Rear - Zone 1 Temperature	255 - 265	°C
Mold Temperature	60 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:09/30/2004

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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