LNP™ LUBRICOMP™ COMPOUND DL003P

DL-4030 EP
REGION ASIA

DESCRIPTION

LNP LUBRICOMP* DL003P is a compound based on Polycarbonate resin containing 15% PTFE. Added features of this material include: Exceptional Processing, Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20181207

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	51	MPa	ASTM D 638
Tensile Stress, break	42	MPa	ASTM D 638
Tensile Strain, yield	5.2	%	ASTM D 638
Tensile Strain, break	39.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	2420	MPa	ASTM D 638
Flexural Stress	82	MPa	ASTM D 790
Flexural Modulus	2100	MPa	ASTM D 790
Tensile Stress, yield	53	MPa	ISO 527
Tensile Stress, break	42	MPa	ISO 527
Tensile Strain, yield	5.3	%	ISO 527
Tensile Strain, break	22.6	%	ISO 527
Tensile Modulus, 1 mm/min	2330	MPa	ISO 527
Flexural Stress	83	MPa	ISO 178
Flexural Modulus	2020	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812
Izod Impact, notched, 23°C	133	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	30	J	ASTM D 3763
Multiaxial Impact	72	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	13	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	121	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	121	°C	ISO 75/Af
PHYSICAL			
Density	1.28	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.7 – 0.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.9 – 1.1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.7 – 0.9	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.9 – 1.1	%	ISO 294
Wear Factor Washer	60	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.18	-	ASTM D 3702 Modified: Manual

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Static COF	0.07	-	ASTM D 3702 Modified: Manual
Density	1.28	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.17	%	ISO 62

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