

LNPTM LUBRICOMPTM COMPOUND DX07404H

DX07404H

DESCRIPTION

LNP LUBRICOMP DX07404H compound is based on Polycarbonate (PC) resin containing proprietary lubricant. Added features of this grade include: Healthcare, Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant, Healthcare/Formula lock
Fillers	Unreinforced
Polymer Types	Polycarbonate (PC)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Hygiene and Healthcare	Pharmaceutical Packaging and Drug Delivery, Surgical devices, General Healthcare, Patient Testing
Packaging	Industrial Packaging

TYPICAL PROPERTY VALUES

PROPERTIES **TYPICAL VALUES** UNITS **TEST METHODS** MECHANICAL (1) Tensile Stress, yld, Type I, 5 mm/min 60 MPa ASTM D638 Tensile Stress, brk, Type I, 5 mm/min 50 MPa ASTM D638 5 Tensile Strain, yld, Type I, 5 mm/min % ASTM D638 Tensile Strain, brk, Type I, 5 mm/min 54 % ASTM D638 ASTM D638 Tensile Modulus, 5 mm/min 2490 MPa ASTM D790 Flexural Stress, brk, 1.3 mm/min, 50 mm span 89 MPa Flexural Modulus, 1.3 mm/min, 50 mm span 2380 MPa ASTM D790 ISO 527 Tensile Stress, yield, 5 mm/min 59 MPa 49 MPa ISO 527 Tensile Stress, break, 5 mm/min 5 Tensile Strain, yield, 5 mm/min % ISO 527 58 Tensile Strain, break, 5 mm/min % ISO 527 Tensile Modulus, 1 mm/min MPa ISO 527 2270 Flexural Stress, break, 2 mm/min 81 MPa ISO 178 Flexural Modulus, 2 mm/min 2380 MPa ISO 178 IMPACT (1) 133 Izod Impact, notched, 23°C J/m ASTM D256 Izod Impact, unnotched 80*10*4 +23°C 179 kJ/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 11 kJ / m² ISO 180/1A THERMAL⁽¹⁾ HDT, 0.45 MPa, 3.2 mm, unannealed °C 135 ASTM D648 HDT, 1.82 MPa, 3.2mm, unannealed 124 °C ASTM D648 1/°C ASTM D696 CTE, -30°C to 30°C, flow 6.4E-05

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CHEMISTRY THAT MATTERS

Revision 20241017



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -30°C to 30°C, xflow	6.5E-05	1/°C	ASTM D696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	135	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	125	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Density	1.25	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.14	%	ASTM D570
Mold Shrinkage, flow ⁽²⁾	0.4 - 0.6	%	SABIC method
Mold Shrinkage, xflow ⁽²⁾	0.5 – 0.7	%	SABIC method
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.5 – 0.7	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.5 – 0.7	%	ASTM D955
Moisture Absorption (23°C / 50% RH)	0.18	%	ISO 62
INJECTION MOLDING ⁽³⁾			
Drying Temperature	120	°C	
Drying Time	2 – 4	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	280 – 300	°C	
Front - Zone 3 Temperature	280 – 300	°C	
Middle - Zone 2 Temperature	270 – 290	°C	
Rear - Zone 1 Temperature	260 – 280	°C	
Mold Temperature	80 – 110	°C	

(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) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(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.

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