

LNPT[™] LUBRICOMP[™] COMPOUND DX94375H

FORMERLY KNOWN AS "PDX-D-94375 EES HC"

DESCRIPTION

LNP LUBRICOMP DX94375H compound is based on Polycarbonate (PC) resin containing PTFE and proprietary lubricant. Added features of this grade include: Healthcare, Wear Resistant.

GENERAL INFORMATION

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

INDUSTRY

Hygiene and Healthcare
Packaging

SUB INDUSTRY

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

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yield	52	MPa	ASTM D638
Tensile Stress, break	44	MPa	ASTM D638
Tensile Strain, yield	5.7	%	ASTM D638
Tensile Strain, break	56	%	ASTM D638
Tensile Modulus, 50 mm/min	1860	MPa	ASTM D638
Flexural Stress	68	MPa	ASTM D790
Flexural Modulus	2040	MPa	ASTM D790
Tensile Stress, yield	49	MPa	ISO 527
Tensile Stress, break	43	MPa	ISO 527
Tensile Strain, yield	5.1	%	ISO 527
Tensile Strain, break	52	%	ISO 527
Tensile Modulus, 1 mm/min	2100	MPa	ISO 527
Flexural Stress	81	MPa	ISO 178
Flexural Modulus	2300	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, notched, 23°C	149	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	33	J	ASTM D3763
Izod Impact, unnotched 80°10°4 +23°C	137	kJ/m ²	ISO 180/1U
Izod Impact, notched 80°10°4 +23°C	19	kJ/m ²	ISO 180/1A
THERMAL ⁽¹⁾			
HDT, 1.82 MPa, 3.2mm, unannealed	128	°C	ASTM D648
PHYSICAL ⁽¹⁾			

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CHEMISTRY THAT MATTERS[™]

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.27	g / cm ³	ASTM D792
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.9 – 1.1	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	1 – 1.2	%	ASTM D955
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.9 – 1.1	%	ISO 294
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	1 – 1.2	%	ISO 294
Density	1.27	g / cm ³	ISO 1183
INJECTION MOLDING ⁽³⁾			
Drying Temperature	120	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	300 – 315	°C	
Front - Zone 3 Temperature	310 – 320	°C	
Middle - Zone 2 Temperature	305 – 315	°C	
Rear - Zone 1 Temperature	295 – 305	°C	
Mold Temperature	80 – 110	°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) 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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