

LNPT[™] LUBRICOMP[™] COMPOUND DX98483H

FORMERLY KNOWN AS "PDX-D-98483 EES HC"

DESCRIPTION

LNP LUBRICOMP DX98483H compound is based on Polycarbonate (PC) resin containing 20% glass fiber and proprietary lubricant. Added features of this grade include: Healthcare, Wear Resistant.

GENERAL INFORMATION

Features	Wear resistant, Healthcare/Formula lock, No PFAS intentionally added
Fillers	Glass Fiber, 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, yld, Type I, 5 mm/min	86	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	85	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	2.3	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	2.5	%	ASTM D638
Tensile Modulus, 5 mm/min	6240	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	142	MPa	ASTM D790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	141	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	5660	MPa	ASTM D790
Tensile Stress, yield, 5 mm/min	87	MPa	ISO 527
Tensile Stress, break, 5 mm/min	87	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.3	%	ISO 527
Tensile Strain, break, 5 mm/min	2.4	%	ISO 527
Tensile Modulus, 1 mm/min	6150	MPa	ISO 527
Flexural Stress	140	MPa	ISO 178
Flexural Modulus, 2 mm/min	5600	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, unnotched, 23°C	571	J/m	ASTM D4812
Izod Impact, notched, 23°C	93	J/m	ASTM D256
Multiaxial Impact	4	J	ISO 6603
Instrumented Dart Impact Total Energy, 23°C	3	J	ASTM D3763
Izod Impact, unnotched 80°10°4 +23°C	38	kJ/m ²	ISO 180/1U
Izod Impact, notched 80°10°4 +23°C	9	kJ/m ²	ISO 180/1A

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CHEMISTRY THAT MATTERS[™]

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
THERMAL ⁽¹⁾			
HDT, 0.45 MPa, 3.2 mm, unannealed	143	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	140	°C	ASTM D648
CTE, -30°C to 30°C, flow	2.8E-05	1/°C	ASTM D696
CTE, -30°C to 30°C, xflow	6.4E-05	1/°C	ASTM D696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	145	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	141	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Specific Gravity	1.39	-	ASTM D792
Density	1.38	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.14	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.49	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.73	%	ASTM D955
Wear Factor Washer	122	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified: Manual
Wear Factor Ring	5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.51	-	ASTM D3702 Modified: Manual
Static COF	0.49	-	ASTM D3702 Modified: Manual
Moisture Absorption (23°C / 50% RH)	0.21	%	ISO 62
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.

BENEFITS

TBD

ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.



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