

LNPTM LUBRICOMPTM COMPOUND DX00714H

FORMERLY KNOWN AS "PDX-D-00714 EES"

DESCRIPTION

LNP LUBRICOMP DX00714H compound is based on Polycarbonate (PC) resin containing 20% glass fiber and proprietary lubricant. Added features of this grade include: Wear Resistant, Healthcare.

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

TYPICAL PROPERTY VALUES

TYPICAL VALUES PROPERTIES UNITS **TEST METHODS** MECHANICAL (1) Tensile Stress, break 89 MPa ASTM D638 Tensile Strain, break 2.2 ASTM D638 % 6550 MPa ASTM D638 Tensile Modulus, 50 mm/min **Flexural Stress** 137 MPa ASTM D790 Flexural Modulus 5310 MPa ASTM D790 Tensile Stress, break 90 MPa ISO 527 Tensile Strain, break 3.3 % ISO 527 Tensile Modulus, 1 mm/min ISO 527 6340 MPa Flexural Stress 135 MPa ISO 178 Flexural Modulus 5200 MPa ISO 178 IMPACT (1) Izod Impact, unnotched, 23°C ASTM D4812 336 J/m Izod Impact, notched, 23°C 74 J/m ASTM D256 Instrumented Dart Impact Energy @ peak, 23°C 30 ASTM D3763 J 72 ISO 6603 Multiaxial Impact T Izod Impact, unnotched 80*10*4 +23°C ISO 180/1U 35 kJ/m² Izod Impact, notched 80*10*4 +23°C 9 kJ/m² ISO 180/1A THERMAL (1) °C HDT, 1.82 MPa, 3.2mm, unannealed 140 ASTM D648 CTE, -40°C to 40°C, flow 1/°C ASTM E831 6.84F-05 CTE, -40°C to 40°C, xflow 1/°C ASTM E831 7.02E-05 ISO 11359-2 CTE, -40°C to 40°C, flow 6.85E-05 1/°C

© 2024 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS

Revision 20231109



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -40°C to 40°C, xflow	7.16E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	141	°C	ISO 75/Af
PHYSICAL ⁽¹⁾			
Density	1.33	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.1	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.3 – 0.5	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.6 - 0.8	%	ASTM D955
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.3 – 0.5	%	ISO 294
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.6 - 0.8	%	ISO 294
Wear Factor Washer	441	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.46	-	ASTM D3702 Modified: Manual
Static COF	0.51		ASTM D3702 Modified: Manual
Density	1.33	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.12	%	ISO 62
INJECTION MOLDING ⁽³⁾			
Drying Temperature	120	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	305 – 325	°C	
Front - Zone 3 Temperature	320 - 330	°C	
Middle - Zone 2 Temperature	310 - 320	°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.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.