

LNPT[™] LUBRICOMP[™] COMPOUND FX04491H

PDX-F-04491

DESCRIPTION

LNP LUBRICOMP FX04491H compound is based on Polyethylene (PE) resin containing proprietary lubricant. Added features of this grade include: Wear Resistant, Healthcare

GENERAL INFORMATION	
Features	Wear resistant, Healthcare/Formula lock, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polyethylene, Unspecified (PE, Unspecified)
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

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yield	24	MPa	ASTM D638
Tensile Strain, yield	7.4	%	ASTM D638
Flexural Stress	23	MPa	ASTM D790
IMPACT ⁽¹⁾			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D4812
Izod Impact, notched, 23°C	45	J/m	ASTM D256
THERMAL ⁽¹⁾			
HDT, 1.82 MPa, 3.2mm, unannealed	42	°C	ASTM D648
PHYSICAL ⁽¹⁾			
Density	0.932	g/cm ³	ASTM D792
Wear Factor Washer	24	10 ⁻¹⁰ in ⁴ ·min/ft·lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.13	-	ASTM D3702 Modified: Manual
Static COF	0.11	-	ASTM D3702 Modified: Manual
INJECTION MOLDING ⁽²⁾			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Melt Temperature	230	°C	
Front - Zone 3 Temperature	220 – 230	°C	
Middle - Zone 2 Temperature	210 – 220	°C	
Rear - Zone 1 Temperature	195 – 205	°C	
Mold Temperature	40 – 55	°C	
Back Pressure	0.2 – 0.3	MPa	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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) 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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