

# LNPTM LUBRICOMPTM COMPOUND KFL32R

KFL-4032 ER

## DESCRIPTION

LNP LUBRICOMP KFL32R compound is based on Acetal (POM) Copolymer resin containing 10% glass fiber, 15% PTFE. Added features of this grade include: Easy Release, Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant, Enhanced mold release
Fillers	Glass Fiber, PTFE/Silicone
Polymer Types	Acetal (POM) Copolymer
Processing Techniques	Injection Molding

  

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

## TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL <sup>(1)</sup></b>			
Tensile Stress, break	79	MPa	ASTM D638
Tensile Strain, break	2.6	%	ASTM D638
Tensile Modulus, 50 mm/min	5100	MPa	ASTM D638
Flexural Stress	115	MPa	ASTM D790
Flexural Modulus	4820	MPa	ASTM D790
Tensile Stress, break	79	MPa	ISO 527
Tensile Strain, break	2.5	%	ISO 527
Tensile Modulus, 1 mm/min	5400	MPa	ISO 527
Flexural Stress	122	MPa	ISO 178
Flexural Modulus	5800	MPa	ISO 178
<b>IMPACT <sup>(1)</sup></b>			
Izod Impact, unnotched, 23°C	347	J/m	ASTM D4812
Izod Impact, notched, 23°C	42	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	6	J	ASTM D3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	26	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL <sup>(1)</sup></b>			
HDT, 0.45 MPa, 3.2 mm, unannealed	165	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	161	°C	ASTM D648

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	162	°C	ISO 75/Af
<b>PHYSICAL <sup>(1)</sup></b>			
Density	1.56	g/cm <sup>3</sup>	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.18	%	ASTM D570
Mold Shrinkage, flow, 24 hrs <sup>(2)</sup>	1.1	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs <sup>(2)</sup>	1.3	%	ASTM D955
Mold Shrinkage, flow, 24 hrs <sup>(2)</sup>	1.08	%	ISO 294
Mold Shrinkage, xflow, 24 hrs <sup>(2)</sup>	1.34	%	ISO 294
Density	1.56	g/cm <sup>3</sup>	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.33	%	ISO 62
<b>FLAME CHARACTERISTICS <sup>(3)</sup></b>			
UL Yellow Card Link	<a href="#">E121562-101282878</a>	-	-
UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94
<b>INJECTION MOLDING <sup>(4)</sup></b>			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Melt Temperature	200 – 215	°C	
Front - Zone 3 Temperature	210 – 220	°C	
Middle - Zone 2 Temperature	195 – 205	°C	
Rear - Zone 1 Temperature	175 – 190	°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) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.
- (4) 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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