LNP™ LUBRICOMP™ COMPOUND JFL34

JFL-4034
REGION AMERICAS

DESCRIPTION

LNP LUBRICOMP JFL34 is a compound based on Polyethersulfone resin containing 20% Glass Fiber, 15% PTFE. Added feature of this grade is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	104	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	97	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.5	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	7070	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	147	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	146	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	6020	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	103	MPa	ISO 527
Tensile Stress, break, 5 mm/min	94	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.5	%	ISO 527
Tensile Strain, break, 5 mm/min	2.5	%	ISO 527
Tensile Modulus, 1 mm/min	7030	MPa	ISO 527
Flexural Stress	147	MPa	ISO 178
Flexural Modulus, 2 mm/min	6300	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	538	J/m	ASTM D 4812
Izod Impact, notched, 23°C	73	J/m	ASTM D 256
Multiaxial Impact	3	J	ISO 6603
Instrumented Impact Total Energy, 23°C	14	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	32	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	ISO 180/1A
THERMAL			

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT, 0.45 MPa, 3.2 mm, unannealed	219	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	212	°C	ASTM D 648
CTE, -30°C to 30°C, flow	3.2E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	4.1E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	220	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	212	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.61	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.35	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 – 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5 – 0.7	%	ASTM D 955
Wear Factor Washer	58	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Wear Factor Ring	7	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.46	-	ASTM D 3702 Modified: Manual
Static COF	0.63	-	ASTM D 3702 Modified: Manual
Density	1.61	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.52	%	ISO 62
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	355 – 370	°C	
Front - Zone 3 Temperature	370 – 380	°C	
Middle - Zone 2 Temperature	360 – 370	°C	
Rear - Zone 1 Temperature	345 – 355	°C	
Mold Temperature	140 – 150	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.
It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.
Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a

particular purpose.
SABIC as referred to herein means any legal entity belonging to the group of companies headed by Saudi Arabia Basic Industries Corporation.