

LNP™ LUBRICOMP™ FX86496 compound

Polyethylene

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* FX86496 is a compound based on Polyethylene containing Proprietary Filler(s). Added feature of this grade is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound PDX-F-86496

Product reorder name: FX86496

General Information			
Filler / Reinforcement	Proprietary packing		
Features	Good wear resistance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	1.7	%	ASTM D955
Transverse flow: 24 hours	1.9	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	594	MPa	ASTM D638
--	423	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	9.00	MPa	ASTM D638
Yield	9.00	MPa	ISO 527-2/5
Fracture ³	9.00	MPa	ASTM D638
Fracture	9.00	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	10	%	ASTM D638
Yield	9.9	%	ISO 527-2/5
Fracture ⁵	22	%	ASTM D638
Fracture	20	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁶	408	MPa	ASTM D790
-- ⁷	284	MPa	ISO 178
Flexural Stress			
--	9.70	MPa	ISO 178
Yield, 50.0mm span ⁸	9.00	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	39	J/m	ASTM D256
23°C ⁹	3.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	470	J/m	ASTM D4812
23°C ¹⁰	49	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	58.0	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ¹¹	51.0	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	45.0	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹²	40.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM D696
Flow: -30 to 30°C	1.8E-4	cm/cm/°C	ASTM D696
Lateral: -30 to 30°C	1.7E-4	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	193 - 204	°C	
Middle Temperature	210 - 221	°C	
Front Temperature	221 - 232	°C	
Processing (Melt) Temp	232	°C	
Mold Temperature	37.8 - 54.4	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	Type 1, 5.0 mm/min		
5.	Type 1, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	80*10*4		
10.	80*10*4		
11.	80*10*4 mm		
12.	80*10*4 mm		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

