

LNP™ LUBRICOMP™ YI001 compound

Thermoplastic Polyester Elastomer

SABIC Innovative Plastics Europe

Message:

LNP LUBRICOMP YI001 is a compound based on Polyester Elastomer containing Silicone. Added features include; Internally Lubricated.

Also known as: LNP* LUBRICOMP* Compound YL-4410 NAT

Product reorder name: YI001

General Information			
Additive	Silicone Lubricant		
Features	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Molding Shrinkage - Flow	2.1	%	Internal Method
Water Absorption (23°C, 24 hr)	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	185	MPa	ISO 527-2/1
Tensile Stress (Yield)	14.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	37	%	ISO 527-2/50
Flexural Modulus ¹	185	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	9.00	MPa	
-- ⁴	12.0	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁵ (23°C)	45	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			
0.45 MPa, Unannealed, 64.0 mm Span	193	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	83.0	°C	ISO 75-2/ Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	2.0E-4	cm/cm/°C	
Transverse : 23 to 60°C	2.2E-4	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	182 to 193	°C	
Middle Temperature	204 to 216	°C	
Front Temperature	227 to 238	°C	

Processing (Melt) Temp	216 to 238	°C
Mold Temperature	26.7 to 54.4	°C
Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm

NOTE		
1.	2.0 mm/min	
2.	2.0 mm/min	
3.	Break	
4.	Yield	
5.	80*10*4	
6.	80*10*4 mm	

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