

LNP™ LUBRICOMP™ YL003 compound

Thermoplastic Polyester Elastomer

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* YL003 is a compound based on Polyester Elastomer resin containing 15% PTFE. Added feature of this grade is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound YL-4030

Product reorder name: YL003

General Information			
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.28	g/cm ³	
--	1.27	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 3.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.33	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.47	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	237	MPa	ASTM D638
--	249	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	43.0	MPa	ASTM D638
Yield	14.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ³	14	%	ASTM D638
Yield	44	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	237	MPa	ASTM D790
-- ⁵	228	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	310	J/m	ASTM D256
23°C ⁶	36	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	460	J/m	ASTM D4812
23°C ⁷	43	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	25.6	J	ASTM D3763
--	24.3	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
CLTE			ASTM D696
Flow : -30 to 30°C	1.7E-4	cm/cm/°C	
Transverse : -30 to 30°C	1.9E-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.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	80*10*4		
7.	80*10*4		

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