

LNP™ LUBRICOMP™ YP003 compound

Thermoplastic Polyester Elastomer

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* YP003 is a compound based on Polyester Elastomer resin containing 15% PTFE/Silicone. Added features of this material include: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound YL-4530

Product reorder name: YP003

General Information			
UL YellowCard	E121562-101344714		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	2.1	%	ASTM D955, ISO 294-4
Across Flow : 24 hr	2.0	%	ASTM D955
Across Flow : 24 hr	2.1	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.37	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	207	MPa	ASTM D638
--	240	MPa	ISO 527-2/1
Tensile Strength			
Yield	13.9	MPa	ASTM D638
Yield	14.2	MPa	ISO 527-2
Tensile Elongation			
Yield	54	%	ASTM D638
Yield	40	%	ISO 527-2
Flexural Modulus			
--	262	MPa	ASTM D790
--	270	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.48		
vs. Itself - Static	0.46		

Wear Factor - Washer	5.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	240	J/m	ASTM D256
23°C ²	27	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	No Break		ASTM D4812, ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	27.7	J	ASTM D3763
--	26.9	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	47.2	°C	ASTM D648
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.1E-4	cm/cm/°C	
Transverse : -40 to 40°C	1.8E-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.	80*10*4		

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