

LNP™ LUBRICOMP™ YL003C compound

Thermoplastic Polyester Elastomer

SABIC Innovative Plastics

Message:

LUBRICOMP* YL-4030 CCS is a PTFE Lubricated Compound based on Polyester Elastomer resin which has low ionic and low outgassing performance for the Semicon and Internal Hard Disk Drive applications.

General Information			
Additive	PTFE Lubricant		
Features	Low (to None) Ion Content		
	Low to No Outgassing		
	Lubricated		
Uses	Electrical/Electronic Applications		
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	1.5 to 1.7	%	ASTM D955
Across Flow : 24 hr	1.7 to 1.9	%	ASTM D955
Across Flow : 24 hr	1.8	%	ISO 294-4
Flow : 24 hr	1.6	%	ISO 294-4
Water Absorption			
23°C, 24 hr ¹	0.20	%	ASTM D570
Saturation, 23°C	0.50	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	56		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ²	280	MPa	ASTM D638
--	260	MPa	ISO 527-2/1
Tensile Strength (Break)	22.0	MPa	ASTM D638
Tensile Elongation			
Break	90	%	ASTM D638
Break	> 450	%	ISO 527-2/50
Flexural Modulus			
--	290	MPa	ASTM D790
--	280	MPa	ISO 178
Flexural Strength			
--	19.0	MPa	ASTM D790

--	12.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	150	J/m	ASTM D256
Unnotched Izod Impact			
23°C	580	J/m	ASTM D4812
23°C ³	23	kJ/m ²	ISO 180/1U
23°C ⁴	48	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	85.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁵	88.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 6.40 mm	54.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁶	57.0	°C	ISO 75-2/Af
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	
Flammability	Nominal Value		Test Method
Flame Rating (1.00 mm)	HB		UL 94
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.	Results measured at 48 hrs		
2.	50 mm/min		
3.	80*10*4		
4.	80*10*3		
5.	80*10*4 mm		
6.	80*10*4 mm		

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