

LNP™ LUBRICOMP™ Cycloy_C2801

compound

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

LNP LUBRICOMP CYCOLOY_C2801 compound is a 5% PTFE reinforced PC+ABS wear resistant flame retardant resin for moving components in business equipment. Medium heat performance

General Information			
Additive	PTFE lubricant (5%)		
Features	Good wear resistance		
	Heat resistance, medium		
	Lubrication		
	Flame retardancy		
Uses	Business equipment		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	12.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal method
Flow: 3.20mm	0.40 - 0.50	%	Internal method
Transverse flow: 3.20mm	0.30 - 0.50	%	Internal method
K (wear) Factor ¹	430		Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield	62.1	MPa	ASTM D638
Fracture	51.7	MPa	ASTM D638
Tensile Elongation ³ (Break)	110	%	ASTM D638
Flexural Modulus ⁴ (100 mm Span)	2720	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 100 mm Span)	95.1	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
With steel-dynamic	0.21		ASTM D1894
With steel-static	0.16		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	82.2	°C	ASTM D648
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI	60.0	°C	UL 746
Electrical	Nominal Value		Test Method
Comparative Tracking Index (CTI)	PLC 1		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
Hot-wire Ignition (HWI)	PLC 3		UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-0		UL 94
2.49 mm	5VB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	76.7 - 82.2	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.040	%	
Suggested Shot Size	30 - 80	%	
Rear Temperature	210 - 254	°C	
Middle Temperature	216 - 260	°C	
Front Temperature	227 - 274	°C	
Nozzle Temperature	232 - 274	°C	
Processing (Melt) Temp	232 - 274	°C	
Mold Temperature	48.9 - 71.1	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	40 - 70	rpm	
Vent Depth	0.038 - 0.076	mm	
NOTE			
1.	xE-10, PV=2000 psi-fpm vs Steel		
2.	Type 1, 50mm/min		
3.	Type 1, 50mm/min		
4.	2.6 mm/min		
5.	2.6 mm/min		

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