

LNP™ LUBRICOMP™ Noryl_NWR5810

compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP LUBRICOMP NORYL_NWR5810 compound is a 10% PTFE filled PPE+PS. High flow and good impact. Applications requiring wear resistance/lubricity. Electronics.

General Information			
Additive	PTFE lubricant (10%)		
Features	Impact resistance, good		
	High liquidity		
	Good wear resistance		
	Lubrication		
Uses	Electrical/Electronic Applications		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	5.5	g/10 min	ASTM D1238
Molding Shrinkage			Internal method
Flow: 3.20mm	0.55 - 0.70	%	Internal method
Transverse flow: 3.20mm	0.45 - 0.70	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2170	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	39.3	MPa	ASTM D638
Fracture	37.9	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield	2.8	%	ASTM D638
Fracture	55	%	ASTM D638
Flexural Modulus			ASTM D790
100mm span ⁴	2000	MPa	ASTM D790
50.0mm span ⁵	2070	MPa	ASTM D790
Flexural Strength			ASTM D790
Yield, 50.0mm span ⁶	61.4	MPa	ASTM D790
Yield, 100mm span ⁷	57.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	230	J/m	ASTM D256
Unnotched Izod Impact (23°C)	2200	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	32.2	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.20mm	113	°C	ASTM D648
0.45 MPa, unannealed, 6.40mm	117	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	97.2	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	106	°C	ASTM D648
Vicat Softening Temperature	110	°C	ASTM D1525 ⁸
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 60°C	6.5E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 60°C	7.4E-5	cm/cm/°C	ASTM E831
Injection	Nominal Value	Unit	
Drying Temperature	93.3 - 98.9	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	30 - 70	%	
Rear Temperature	227 - 277	°C	
Middle Temperature	238 - 282	°C	
Front Temperature	249 - 288	°C	
Nozzle Temperature	260 - 288	°C	
Processing (Melt) Temp	260 - 288	°C	
Mold Temperature	71.1 - 93.3	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	20 - 100	rpm	
Vent Depth	0.038 - 0.051	mm	
NOTE			
1.	50 mm/min		
2.	Type 1, 50mm/min		
3.	Type 1, 50mm/min		
4.	2.6 mm/min		
5.	1.3 mm/min		
6.	1.3 mm/min		
7.	2.6 mm/min		
8.	标准 B (120°C/h), 载荷2 (50N)		

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