

LNP™ LUBRICOMP™ ZX05506 compound

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* ZX05506 is a compound based on PPE+PS Blend resin containing Graphite Powder, PTFE. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound ZML-4334
Product reorder name: ZX05506

General Information			
Filler / Reinforcement	Graphite powder		
Additive	PTFE lubricant		
	Graphite powder lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.50	%	ASTM D955
Transverse flow: 24 hours	0.50	%	ASTM D955
Vertical flow direction: 24 hours	0.54	%	ISO 294-4
Flow direction: 24 hours	0.50	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4900	MPa	ASTM D638
--	4910	MPa	ISO 527-2/1
Tensile Strength			
Fracture	52.5	MPa	ASTM D638
Fracture	50.0	MPa	ISO 527-2
Tensile Elongation			
Fracture	2.4	%	ASTM D638
Fracture	2.5	%	ISO 527-2
Flexural Modulus			
--	4960	MPa	ASTM D790
--	5370	MPa	ISO 178
Flexural Strength			
--	99.2	MPa	ASTM D790
--	94.7	MPa	ISO 178

Coefficient of Friction		ASTM D3702 Modified	
With self-dynamics	0.34	ASTM D3702 Modified	
With Self-Static	0.34	ASTM D3702 Modified	
Wear Factor - Washer	174	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	32	J/m	ASTM D256
23°C ²	2.9	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	180	J/m	ASTM D4812
23°C ³	13	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	3.80	J	ASTM D3763
--	1.23	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	122	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	126	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	277 - 288	°C	
Middle Temperature	288 - 299	°C	
Front Temperature	299 - 310	°C	
Processing (Melt) Temp	299 - 304	°C	
Mold Temperature	82.2 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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