

LNP™ LUBRICOMP™ WCP36 compound

Polybutylene Terephthalate

SABIC Innovative Plastics Europe

Message:

LNP LUBRICOMP WCP36 is a compound based on Polybutylene Terephthalate resin containing Carbon Fiber, PTFE, Silicone. Added features include; Internally Lubricated, Electrically Conductive.

Also known as: LNP* LUBRICOMP* Compound WCL-4536

Product reorder name: WCP36

General Information			
Filler / Reinforcement	Carbon Fiber		
Additive	PTFE + Silicone Lubricant		
Features	Electrically Conductive		
	Lubricated		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm³	ISO 1183
Molding Shrinkage - Flow	0.060	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16000	MPa	ISO 527-2/1
Tensile Stress (Break)	116	MPa	ISO 527-2/5
Tensile Strain (Break)	1.1	%	ISO 527-2/5
Flexural Modulus ¹	11500	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	137	MPa	
-- ⁴	127	MPa	
Flexural Strain at Break ⁵	2.1	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁶ (23°C)	6.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength ⁷ (23°C)	25	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, Unannealed, 64.0 mm Span	221	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	198	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	2.2E-5	cm/cm/°C	
Transverse : 23 to 60°C	7.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+3	ohms	ASTM D257

Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	221 to 232	°C
Middle Temperature	243 to 254	°C
Front Temperature	260 to 271	°C
Processing (Melt) Temp	238 to 266	°C
Mold Temperature	82.2 to 98.9	°C
Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm

NOTE

- | | |
|----|------------|
| 1. | 2.0 mm/min |
| 2. | 2.0 mm/min |
| 3. | Yield |
| 4. | Break |
| 5. | 2 mm/min |
| 6. | 80*10*4 |
| 7. | 80*10*4 |
| 8. | 80*10*4 mm |

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