

LNP™ LUBRICOMP™ DCI06APW compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* DCI06APW is a compound based on Polycarbonate resin containing Carbon Fiber. Added features of this material include: Electrically Conductive, High Flow.

Also known as: LNP* LUBRICOMP* Compound DCI06APW

Product reorder name: DCI06APW

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Electrically Conductive		
	High Flow		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Volume-Flow Rate (MVR) (300°C/5.0 kg)	28.0	cm ³ /10min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.050 to 0.15	%	
Across Flow : 24 hr	0.15 to 0.40	%	
Water Absorption (24 hr, 50% RH)	0.11	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	25400	MPa	ASTM D638
--	23800	MPa	ISO 527-2/1
Tensile Strength			
Break ²	183	MPa	ASTM D638
Break	183	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.4	%	ASTM D638
Break	1.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	20100	MPa	ASTM D790
-- ⁵	20600	MPa	ISO 178
Flexural Stress			
--	262	MPa	ISO 178
Break, 50.0 mm Span ⁶	265	MPa	ASTM D790
Compressive Strength	128	MPa	Internal Method
Shear Modulus	3510	MPa	ASTM C273

Shear Strength	92.0	MPa	ASTM C273
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	94	J/m	ASTM D256
23°C ⁷	9.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	500	J/m	ASTM D4812
23°C ⁸	34	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	16.8	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	128	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	130	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	9.7E-6	cm/cm/°C	
Transverse : -30 to 30°C	4.6E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	270 to 285	°C	
Middle Temperature	275 to 290	°C	
Front Temperature	285 to 300	°C	
Mold Temperature	100 to 120	°C	
Back Pressure	0.200 to 0.300	MPa	
Screw Speed	40 to 80	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		

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