

LNP™ LUBRICOMP™ COMPOUND DCI06APW

DCI06APW
REGION AMERICAS

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	183	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.4	%	ASTM D 638
Tensile Modulus, 5 mm/min	25440	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	265	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	20100	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	183	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.6	%	ISO 527
Tensile Modulus, 1 mm/min	23830	MPa	ISO 527
Flexural Stress	262	MPa	ISO 178
Flexural Modulus, 2 mm/min	20600	MPa	ISO 178
Compressive Strength	128	MPa	SABIC method
Shear Strength	92	MPa	ASTM C 273
Shear Modulus	3508	MPa	ASTM C 273
IMPACT			
Izod Impact, unnotched, 23°C	504	J/m	ASTM D 4812
Izod Impact, notched, 23°C	94	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	16	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	33	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	128	°C	ASTM D 648
CTE, -30°C to 30°C, flow	9.7E-06	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	4.6E-05	1/°C	ASTM D 696

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	130	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.3	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.11	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.05 – 0.15	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.15 – 0.4	%	ASTM D 955
Melt Volume Rate, MVR at 300°C/5.0 kg	28	cm ³ /10 min	ASTM D 1238
ELECTRICAL			
Surface Resistivity	1.E+03	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Melt Temperature	290 – 300	°C	
Front - Zone 3 Temperature	285 – 300	°C	
Middle - Zone 2 Temperature	275 – 290	°C	
Rear - Zone 1 Temperature	270 – 285	°C	
Mold Temperature	100 – 120	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	40 – 80	rpm	
Maximum Moisture Content	0.02	%	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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