

LNP™ THERMOCOMP™ UC006XXH

compound

Polyphthalamide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* UC006XXH is a compound based on Polyphthalamide resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive, Healthcare.

Also known as: LNP* THERMOCOMP* Compound UC-1006 HC

Product reorder name: UC006XXH

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Electrically Conductive		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.60	%	ASTM D955
Across Flow : 24 hr	0.62	%	ISO 294-4
Flow : 24 hr	0.16	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.31	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.66	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	26100	MPa	ASTM D638
--	28200	MPa	ISO 527-2/1
Tensile Strength			
Break	287	MPa	ASTM D638
Break	263	MPa	ISO 527-2
Tensile Elongation			
Break	1.5	%	ASTM D638
Break	1.3	%	ISO 527-2
Flexural Modulus			
--	22600	MPa	ASTM D790
--	22300	MPa	ISO 178
Flexural Strength			
--	420	MPa	ASTM D790

--	413	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.27		
vs. Itself - Static	0.21		
Wear Factor - Washer	6.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	75	J/m	ASTM D256
23°C ²	6.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	830	J/m	ASTM D4812
23°C ³	52	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.91	J	ASTM D3763
--	2.30	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	286	°C	ASTM D648
CLTE			
Flow : -40 to 40°C	1.8E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	1.9E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	4.0E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	310 to 321	°C	
Middle Temperature	316 to 327	°C	
Front Temperature	327 to 338	°C	
Processing (Melt) Temp	316 to 332	°C	
Mold Temperature	138 to 166	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		

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