

LNP™ THERMOCOMP™ UC008H compound

Polyphthalamide
SABIC Innovative Plastics

Message:

LNP THERMOCOMP* UC008H is a compound based on Polyphthalamide resin containing 40% Carbon Fiber. Added features of this material include: Electrically Conductive, Healthcare.
Also known as: LNP* THERMOCOMP* Compound UC-1008
Product reorder name: UC008H

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	Electrically Conductive		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.70 to 0.90	%	
Across Flow : 24 hr	0.70 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.40	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.46 to 1.4	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	33800	MPa	ASTM D638
--	35500	MPa	ISO 527-2/1
Tensile Strength			
Break	261	MPa	ASTM D638
Break	232	MPa	ISO 527-2
Tensile Elongation			
Break	1.0	%	ASTM D638
Break	1.3	%	ISO 527-2
Flexural Modulus			
--	26800	MPa	ASTM D790
--	26600	MPa	ISO 178
Flexural Strength			
--	441	MPa	ASTM D790
--	425	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256

23°C ²	7.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	330	J/m	ASTM D4812
23°C ³	45	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.00	J	ASTM D3763
--	5.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	> 249	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	> 250	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+4	ohms·cm	ASTM D257
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		
4.	80*10*4 mm		

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