

LNP™ THERMOCOMP™ DC006ERH

compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* THERMOCOMP* DC006ERH is a compound based on Polycarbonate resin containing 30% Carbon Fiber. Added features of this grade include: Easy Molding, Mold Release, Healthcare.

Also known as: LNP* THERMOCOMP* Compound DC-1006 EM MR HC

Product reorder name: DC006ERH

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Good Mold Release		
	Good Moldability		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.23	%	
Across Flow : 24 hr	0.49	%	
Water Absorption			
24 hr, 50% RH	0.10	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.14	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	18600	MPa	ASTM D638
--	18100	MPa	ISO 527-2/1
Tensile Strength			
Break ²	158	MPa	ASTM D638
Break	156	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.7	%	ASTM D638
Break	1.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	15600	MPa	ASTM D790
-- ⁵	16100	MPa	ISO 178
Flexural Stress			
--	224	MPa	ISO 178

Break, 50.0 mm Span ⁶	234	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	75	J/m	ASTM D256
23°C ⁷	8.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	610	J/m	ASTM D4812
23°C ⁸	36	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	11.3	J	ASTM D3763
--	3.10	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	146	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	146	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	140	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	141	°C	ISO 75-2/Af
CLTE			ASTM D696
	1.2E-5		
Flow : -30 to 30°C	1.2E-5	cm/cm/°C	
	3.7E-5		
Transverse : -30 to 30°C	3.7E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	310 to 321	°C	
Front Temperature	321 to 332	°C	
Processing (Melt) Temp	304 to 327	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	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
10.	80*10*4 mm

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT