

LNP™ THERMOCOMP™ DF0069P compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* DF0069P is a compound based on Polycarbonate resin containing 30% Glass Fiber. Added features of this material include:
Exceptional Processing. Flame Retardant.

Also known as: LNP* THERMOCOMP* Compound DF-1006 EP FR

Product reorder name: DF0069P

General Information			
UL YellowCard	E121562-101358201		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Flame Retardant		
	Good Processability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.40 to 0.60	%	
Water Absorption			
24 hr, 50% RH	0.090	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.12	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9710	MPa	ASTM D638
--	9100	MPa	ISO 527-2/1
Tensile Strength			
Break ²	127	MPa	ASTM D638
Break	119	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.6	%	ASTM D638
Break	2.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	9020	MPa	ASTM D790
-- ⁵	8480	MPa	ISO 178
Flexural Strength ⁶ (Break, 50.0 mm Span)	196	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	110	J/m	ASTM D256

23°C ⁷	11	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	760	J/m	ASTM D4812
23°C ⁸	49	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	9.40	J	ASTM D3763
--	2.80	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	139	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	140	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	135	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	136	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.7E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.5E-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.	50 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.

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

