

LNP™ THERMOCOMP™ DF0046P compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP DF0046P is a compound based on Polycarbonate resin containing 20% Glass Fiber. Added features include: Exceptional Processing, Non-Brominated & Non-Chlorinated Flame Retardant.

Also known as: LNP* THERMOCOMP* Compound DF-1004 EP FR ECO

Product reorder name: DF0046P

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Processability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.30 to 0.50	%	
Water Absorption			
24 hr, 50% RH	0.40	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6160	MPa	ASTM D638
--	6930	MPa	ISO 527-2/1
Tensile Strength			
Break	95.1	MPa	ASTM D638
Break	97.0	MPa	ISO 527-2
Tensile Elongation			
Break	3.6	%	ASTM D638
Break	3.3	%	ISO 527-2
Flexural Modulus			
--	5980	MPa	ASTM D790
--	6560	MPa	ISO 178
Flexural Strength			
--	138	MPa	ASTM D790
--	151	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	75	J/m	ASTM D256
23°C ²	8.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	470	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Energy at Peak Load)	10.5	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	141	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	137	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ³	138	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	4.7E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	2.1E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	1.1E-4	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	7.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm, Testing by SABIC)	V-0	UL 94	
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.	80*10*4		
3.	80*10*4 mm		

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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

