

LNP™ THERMOCOMP™ DF0029P compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* DF0029P is a compound based on Polycarbonate resin containing 10% Glass Fiber. Added features of this material include:
Exceptional Processing. Flame Retardant.

Also known as: LNP* THERMOCOMP* Compound DF-1002 EP FR

Product reorder name: DF0029P

General Information			
UL YellowCard	E121562-101283881	E121562-101283882	E121562-101358201
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Flame Retardant		
	Good Processability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.40	%	ASTM D955
Across Flow : 24 hr	0.40	%	ASTM D955
Across Flow : 24 hr	0.48	%	ISO 294-4
Flow : 24 hr	0.42	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4620	MPa	ASTM D638
--	4800	MPa	ISO 527-2/1
Tensile Strength			
Break	92.9	MPa	ASTM D638
Break	93.2	MPa	ISO 527-2
Tensile Elongation (Break)	3.8	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	4690	MPa	ASTM D790
--	5000	MPa	ISO 178
Flexural Strength			
--	155	MPa	ASTM D790
--	159	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ²	5.2	kJ/m ²	ISO 180/1A

Unnotched Izod Impact			
23°C	410	J/m	ASTM D4812
23°C ³	33	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	5.30	J	ASTM D3763
--	1.44	J	ISO 6603-2
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	136	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	134	°C	ISO 75-2/Af
Flammability	Nominal Value		Test Method
Flame Rating (0.640 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		
4.	80*10*4 mm		

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