LNP™ THERMOCOMP™ DF0046P compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP DF0046P is a compound based on Polycarbonate resin containing Glass Fiber, Flame Retardant. Added features of this material include: Exceptional Processing, Flame Retardant, Non-Brominated & Non-Chlorinated Flame Retardant.
Also known as: LNP* THERMOCOMP* Compound DF-1004 EP FR ECO
Product reorder name: DF0046P

General Information	
UL YellowCard	E207780-101284060
Filler / Reinforcement	Glass fiber reinforced material
Features	Chlorine Free
	Workability, good
	Bromine-free
	Flame retardancy

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.20 - 0.40	%	ASTM D955
Transverse flow: 24 hours	0.30 - 0.50	%	ASTM D955
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			
Fracture	95.1	MPa	ASTM D638
Fracture	97.0	MPa	ISO 527-2
Tensile Elongation			
Fracture	3.6	%	ASTM D638
Fracture	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/m²	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, 3.20mm	141	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	137	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [3]	138	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
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
Lateral: -40 to 40°C	1.1E-4	cm/cm/°C	ASTM E831
Lateral: -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
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4 mm		

Recommended distributors for this material

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