

LNP™ THERMOCOMP™ DX06409 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP THERMOCOMP DX06409 is a compound based on Polycarbonate resin containing Glass Fiber. Added features of this material include: Easy Molding, Mold Release.

Also known as: LNP* THERMOCOMP* Compound DF-1002 EM MR HC

Product reorder name: DX06409

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	demoulding		
Features	Good formability		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.28	g/cm ³	ASTM D792
--	1.27	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.40	%	ASTM D955
Transverse flow: 24 hours	0.50	%	ASTM D955
Vertical flow direction: 24 hours	0.51	%	ISO 294-4
Flow direction: 24 hours	0.43	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4170	MPa	ASTM D638
--	4100	MPa	ISO 527-2/1
Tensile Strength			
Fracture	83.4	MPa	ASTM D638
Fracture	84.0	MPa	ISO 527-2
Tensile Elongation			
Fracture	3.8	%	ASTM D638
Fracture	3.6	%	ISO 527-2
Flexural Modulus			
--	4280	MPa	ASTM D790
--	3920	MPa	ISO 178
Flexural Strength			
--	145	MPa	ASTM D790
--	117	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	96	J/m	ASTM D256
23°C ²	8.7	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	910	J/m	ASTM D4812
23°C ³	62	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	13.0	J	ASTM D3763
--	9.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	141	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	141	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	137	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	137	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	3.8E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	5.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Flammability	Nominal Value	Test Method	
Flame Rating (3.00 mm, Testing by SABIC)	V-1	UL 94	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	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



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