

LNP™ COLORCOMP™ C1200HFC compound

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

LNP* COLORCOMP* C1200HFC is a compound based on PC+ABS. Added features of this grade include: Excellent Flow, Impact, High Heat Resistance, Low Temperature Ductility. For use in automotive, appliance and electrical components.

General Information	
UL YellowCard	E121562-102799033
Features	Impact resistance, high High liquidity Heat resistance, high ductility
Uses	Electrical components Home appliance components Application in Automobile Field

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	19	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (265°C/5.0 kg)	24.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.70	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2280	MPa	ASTM D638
--	2370	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	57.2	MPa	ASTM D638
Yield	55.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ³	5.0	%	ASTM D638
Yield	4.8	%	ISO 527-2/50
Fracture ⁴	150	%	ASTM D638
Fracture	110	%	ISO 527-2/50
Flexural Modulus			
50.0mm span ⁵	2340	MPa	ASTM D790
--	2250	MPa	ISO 178
Flexural Stress			
--	86.0	MPa	ISO 178

Yield, 50.0mm span ⁶	88.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-30°C	480	J/m	ASTM D256
23°C	590	J/m	ASTM D256
-30°C ⁷	34	kJ/m²	ISO 180/1A
23°C ⁸	49	kJ/m²	ISO 180/1A
Instrumented Dart Impact			ASTM D3763
-30°C, Total Energy	54.2	J	ASTM D3763
23°C, Total Energy	54.2	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	129	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁹	130	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	113	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹⁰	110	°C	ISO 75-2/Af
Vicat Softening Temperature	130	°C	ISO 306/B50
CLTE - Flow (-40 to 40°C)	7.2E-5	cm/cm/°C	ASTM E831
RTI Elec	105	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI	105	°C	UL 746
Electrical	Nominal Value	Test Method	
Comparative Tracking Index (CTI)	PLC 2	UL 746	
High Amp Arc Ignition (HAI)	PLC 1	UL 746	
Hot-wire Ignition (HWI)	PLC 3	UL 746	
Flammability	Nominal Value	Test Method	
Flame Rating (1.2 mm)	HB	UL 94	
NOTE			
1.	50 mm/min		
2.	Type 1, 50mm/min		
3.	Type 1, 50mm/min		
4.	Type 1, 50mm/min		
5.	1.3 mm/min		
6.	1.3 mm/min		
7.	80*10*4mm, Cut		
8.	80*10*4mm, Cut		
9.	80*10*4 mm		
10.	80*10*4 mm		

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