

LNP™ THERMOCOMP™ MX89510 compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP THERMOCOMP MX89510 is a compound based on Polypropylene resin containing Proprietary Filler(s).

Also known as: LNP* THERMOCOMP* Compound PDX-M-89510

Product reorder name: MX89510

General Information			
Filler / Reinforcement	Proprietary		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.02	g/cm ³	
--	1.01	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.80 to 2.0	%	
Across Flow : 24 hr	0.90 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3830	MPa	ASTM D638
--	3540	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	52.0	MPa	ASTM D638
Yield	50.0	MPa	ISO 527-2/5
Break ³	52.0	MPa	ASTM D638
Break	48.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	3.0	%	ASTM D638
Yield	2.9	%	ISO 527-2/5
Break ⁵	3.4	%	ASTM D638
Break	3.4	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2800	MPa	ASTM D790
-- ⁷	2960	MPa	ISO 178
Flexural Stress			
--	76.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	80.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	21	J/m	ASTM D256
23°C ⁹	2.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	370	J/m	ASTM D4812
23°C ¹⁰	22	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	4.00	J	ASTM D3763
--	1.10	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	156	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	153	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	131	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	119	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	4.3E-5	cm/cm/°C	
Transverse : -30 to 30°C	1.2E-4	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	193 to 204	°C	
Middle Temperature	216 to 227	°C	
Front Temperature	238 to 249	°C	
Processing (Melt) Temp	227 to 249	°C	
Mold Temperature	32.2 to 48.9	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	80*10*4		
10.	80*10*4		
11.	80*10*4 mm		
12.	80*10*4 mm		

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