

LNP™ COLORCOMP™ MG47C compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP* COLORCOMP* MG47C is a multi-purpose, injection molding ABS resin.

Also known as: LNP* COLORCOMP* Compound MG47

Product reorder name: MG47C

General Information			
UL YellowCard	E121562-102809507	E121562-102809509	
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
230°C/3.8 kg	5.6	g/10 min	ASTM D1238
220°C/10.0 kg	18	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.80	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2270	MPa	ASTM D638
--	2370	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	44.0	MPa	ASTM D638
Yield	47.0	MPa	ISO 527-2/50
Fracture ³	33.0	MPa	ASTM D638
Fracture	35.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	2.0	%	ASTM D638
Yield	2.6	%	ISO 527-2/50
Fracture ⁵	24	%	ASTM D638
Fracture	25	%	ISO 527-2/50
Flexural Modulus			
50.0mm span ⁶	2300	MPa	ASTM D790
-- ⁷	2200	MPa	ISO 178
Flexural Stress			
--	70.0	MPa	ISO 178
Yield, 50.0mm span ⁸	70.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹			ISO 179/1eA

-30°C	9.0	kJ/m ²	ISO 179/1eA
23°C	26	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	320	J/m	ASTM D256
-30°C ¹⁰	8.0	kJ/m ²	ISO 180/1A
23°C ¹¹	22	kJ/m ²	ISO 180/1A
Instrumented Dart Impact (23°C, Total Energy)	30.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	94.0	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	80.0	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹²	81.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	99.0	°C	ASTM D1525 ¹³
--	98.0	°C	ISO 306/B50
--	100	°C	ISO 306/B120
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	8.8E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	8.8E-5	cm/cm/°C	ASTM E831
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI	60.0	°C	UL 746
Electrical	Nominal Value		Test Method
Arc Resistance ¹⁴	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 3		UL 746
Hot-wire Ignition (HWI)	PLC 3		UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.5 mm)	HB		UL 94
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (240°C, 1000 sec ⁻¹)	225	Pa · s	ASTM D3835
Injection	Nominal Value	Unit	
Drying Temperature	82 - 93	°C	
Drying Time	2.0 - 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.10	%	
Suggested Shot Size	50 - 70	%	
Rear Temperature	188 - 210	°C	
Middle Temperature	204 - 227	°C	
Front Temperature	216 - 238	°C	

Nozzle Temperature	218 - 260	°C
Processing (Melt) Temp	218 - 260	°C
Mold Temperature	49 - 71	°C
Back Pressure	0.345 - 0.689	MPa
Screw Speed	30 - 60	rpm
Vent Depth	0.038 - 0.051	mm

NOTE

1.	5.0 mm/min
2.	Type 1, 5.0 mm/min
3.	Type 1, 5.0 mm/min
4.	Type 1, 5.0 mm/min
5.	Type 1, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4 sp=62mm
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	标准 B (120°C/h), 载荷2 (50N)
14.	Tungsten electrode

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