

LNP™ COLORCOMP™ D10006U compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP COLORCOMP D10006U is an unfilled Polycarbonate. Added features include: Lasermarking Capability, UL Listed.

Also known as: LNP* COLORCOMP* Compound D10006U

Product reorder name: D10006U

General Information			
Features	Laser Markable		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.60 to 0.80	%	
Across Flow : 24 hr	0.80 to 1.0	%	
Water Absorption			
24 hr, 50% RH	0.13	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.24	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2470	MPa	ASTM D638
--	2460	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	61.0	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/5
Break ³	54.0	MPa	ASTM D638
Break	55.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	6.0	%	ASTM D638
Yield	6.0	%	ISO 527-2/5
Break ⁵	79	%	ASTM D638
Break	150	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2440	MPa	ASTM D790
-- ⁷	2330	MPa	ISO 178
Flexural Stress	89.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	740	J/m	ASTM D256
23°C ⁸	58	kJ/m ²	ISO 180/1A

Instrumented Dart Impact			
23°C, Total Energy	63.0	J	ASTM D3763
--	76.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	138	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	136	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	125	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	124	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	7.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.9E-3	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	310 to 321	°C	
Front Temperature	321 to 332	°C	
Processing (Melt) Temp	304 to 327	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 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.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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