

LNP™ COLORCOMP™ DX98550H compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP COLORCOMP DX98550H is an unfilled Polycarbonate resin. Added features of this grade are: Low Extractable, Healthcare.

Also known as: LNP* COLORCOMP* Compound PDX-D-98550 LE

Product reorder name: DX98550H

General Information			
UL YellowCard	E121562-101283826		
Features	Low Extractables		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.60 to 0.80	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2410	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	65.0	MPa	
Break	60.0	MPa	
Tensile Elongation ³ (Break)	120	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	2340	MPa	ASTM D790
Flexural Strength	86.0	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
CLTE			ASTM E831
Flow : -40 to 40°C	3.3E-5	cm/cm/°C	
Transverse : -40 to 40°C	3.3E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dissipation Factor (1 MHz)	0.010		ASTM D150
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	304 to 316	°C	
Front Temperature	310 to 321	°C	

Processing (Melt) Temp	299 to 316	°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. | 1.3 mm/min |

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