

LNP™ COLORCOMP™ DX04401H compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP COLORCOMP DX04401H is an unfilled Polycarbonate. Added feature of this grade is: Healthcare.

Also known as: LNP* COLORCOMP* Compound PDX-D-04401

Product reorder name: DX04401H

General Information			
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	12.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (24 hr)	0.50	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.15	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.32	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2210	MPa	ASTM D638
Tensile Strength			
Yield ²	62.0	MPa	ASTM D638
Yield	62.0	MPa	ISO 527-2
Break ³	68.3	MPa	ASTM D638
Break	68.0	MPa	ISO 527-2
Tensile Elongation			
Yield ⁴	6.0	%	ASTM D638
Yield	6.0	%	ISO 527-2
Break	150	%	ISO 527-2
Flexural Modulus ⁵	2400	MPa	ISO 178
Flexural Stress	98.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/2C
-30°C	12	kJ/m ²	
23°C	25	kJ/m ²	
Notched Izod Impact			
23°C	750	J/m	ASTM D256
23°C ⁶	75	kJ/m ²	ISO 180/1A

Unnotched Izod Impact (23°C)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	122	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁷	120	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+17	ohms·cm	ASTM D257
Dielectric Constant (1 MHz)	3.00		ASTM D150
Dissipation Factor			ASTM D150
100 Hz	1.0E-3		
1 MHz	2.0E-3		
Optical	Nominal Value		Test Method
Refractive Index	1.586		ASTM D542, ISO 489
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.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		
5.	2.0 mm/min		
6.	80*10*4		
7.	80*10*4 mm		

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