

LNP™ COLORCOMP™ COMPOUND DX04401H

PDX-D-04401
REGION AMERICAS

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 50 mm/min	62	MPa	ASTM D 638
Tensile Stress, break, 50 mm/min	68	MPa	ASTM D 638
Tensile Strain, yield, 50 mm/min	6	%	ASTM D 638
Tensile Modulus, 50 mm/min	2210	MPa	ASTM D 638
Hardness, Rockwell R	118	-	ASTM D 785
Tensile Stress, yield	62	MPa	ISO 527
Tensile Stress, break	68	MPa	ISO 527
Tensile Strain, yield	6	%	ISO 527
Tensile Strain, break	150	%	ISO 527
Flexural Stress	98	MPa	ISO 178
Flexural Modulus, 2 mm/min	2400	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812
Izod Impact, notched, 23°C	750	J/m	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	75	kJ/m ²	ISO 180/1A
Charpy Impact, notched, 23°C	25	kJ/m ²	ISO 179/2C
Charpy Impact, notched, -30°C	12	kJ/m ²	ISO 179/2C
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	122	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	120	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.2	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.15	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.5 – 0.5	%	ASTM D 955

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Moisture Absorption (23°C / 50% RH)	0.32	%	ISO 62
Melt Volume Rate, MVR at 300°C/1.2 kg	12	cm³/10 min	ISO 1133
OPTICAL			
Refractive Index	1.586	-	ASTM D542
Refractive Index	1.586	-	ISO 489
ELECTRICAL			
Volume Resistivity	2.E+17	Ohm-cm	ASTM D 257
Dielectric Constant, 1 MHz	3	-	ASTM D 150
Dissipation Factor, 100 Hz	0.001	-	ASTM D 150
Dissipation Factor, 1 MHz	0.002	-	ASTM D 150
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	305 – 325	°C	
Front - Zone 3 Temperature	320 – 330	°C	
Middle - Zone 2 Temperature	310 – 320	°C	
Rear - Zone 1 Temperature	295 – 305	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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