



LNP™ COLORCOMP™ Compound DX04401H

Americas: COMMERCIAL

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

Product reorder name: DX04401H

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

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield, 50 mm/min	630	kgf/cm ²	ASTM D 638
Tensile Stress, break, 50 mm/min	690	kgf/cm ²	ASTM D 638
Tensile Strain, yield, 50 mm/min	6	%	ASTM D 638
Tensile Modulus, 50 mm/min	22500	kgf/cm ²	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	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	76	cm-kgf/cm	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



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PHYSICAL			
Moisture Absorption (23°C / 50% RH)	0.32	%	ISO 62
Melt Volume Rate, MVR at 300°C/1.2 kg	12	cm ³ /10 min	ISO 1133
OPTICAL			
Refractive Index	1.586	-	ASTM D 542
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



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
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