



LNP™ COLORCOMP™ Compound DX98735H

Americas: COMMERCIAL

Also known as: LNP™ COLORCOMP™ Compound PDX-D-98735 HC

Product reorder name: DX98735H

LNP COLORCOMP DX98735H is an unfilled Polycarbonate resin. Added feature of this grade is: Healthcare.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	640	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	550	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	6.3	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	66	%	ASTM D 638
Tensile Modulus, 50 mm/min	23800	kgf/cm ²	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	25000	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	62	MPa	ISO 527
Tensile Stress, break, 5 mm/min	58	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	6.2	%	ISO 527
Tensile Strain, break, 5 mm/min	167	%	ISO 527
Tensile Modulus, 1 mm/min	2240	MPa	ISO 527
Flexural Stress	80	MPa	ISO 178
Flexural Modulus, 2 mm/min	2280	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	256	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	10	cm-kgf/cm	ASTM D 256
Multiaxial Impact	786	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	622	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	212	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	139	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	132	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -30°C to 30°C, flow	6.8E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.9E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	138	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	126	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.21	-	ASTM D 792
Density	1.21	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.14	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.6 - 0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.8 - 1	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.21	%	ISO 62



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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	300 - 315	°C
Front - Zone 3 Temperature	310 - 320	°C
Middle - Zone 2 Temperature	305 - 315	°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