

**Product Texts**

LNP COLORCOMP DX04401H compound is based on Polycarbonate (PC) resin. Added features of this grade include: Healthcare.

**Processing/Physical Characteristics**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	12	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.5	mm/mm	ASTM D 955

**Mechanical properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Yield stress	62	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	68	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2400	MPa	ISO 178
Flexural strength	98	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	75	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2210	MPa	ASTM D 638
Tensile Strength at Yield	62	MPa	ASTM D 638
Tensile Strength at Break	68	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Rockwell Hardness	R 118	-	ASTM D 785
Izod Impact notched, 1/8 in	750	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

**Thermal properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	120	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 264 psi	122	°C	ASTM D 648

**Electrical properties**

	Value	Unit	Test Standard
<b>ASTM Data</b>			
Dissipation Factor, 1 MHz	0.002	-	ASTM D 150
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

**Other properties**

	Value	Unit	Test Standard
Humidity absorption	0.32	%	Sim. to ISO 62
Water Absorption, 24hr	0.15	%	ASTM D 570
Density	1200	kg/m <sup>3</sup>	ASTM D 792

**Processing Recommendation Injection Molding**

	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	305 - 325	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	310 - 320	°C	-
Zone 3	320 - 330	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific