

Product Texts

LNP COLORCOMP D10006U compound is based on Polycarbonate (PC) resin. Added features of this grade include: UV Stabilized, Flame Retardant.

UL Yellow Card Link [E121562-101212682](https://www.ul.com/yellowcard/E121562-101212682)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.7	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.9	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2460	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	55	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2320	MPa	ISO 178
Flexural strength	89	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	58	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2470	MPa	ASTM D 638
Tensile Strength at Yield	61	MPa	ASTM D 638
Tensile Strength at Break	54	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	79	%	ASTM D 638
Flexural Modulus	2440	MPa	ASTM D 790
Izod Impact notched, 1/8 in	741	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	124	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	136	°C	ISO 75-1/-2
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.5	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	70.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	6930	E-6/K	ASTM D 696
DTUL @ 66 psi	138	°C	ASTM D 648
DTUL @ 264 psi	125	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.24	%	Sim. to ISO 62
Water Absorption, 24hr	0.13	%	ASTM D 570
Density	1240	kg/m ³	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

Applications

Automotive

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Flame retardant