

**Product Texts**

LNP THERMOCOMP DF0049P compound is based on Polycarbonate (PC) resin containing 20% glass fiber. Added features of this grade include: Exceptional Processing, Flame Retardant.

UL Yellow Card Link [E121562-101358201](https://www.ul.com/yellowcard/E121562-101358201)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	6950	MPa	ISO 527
Stress at break	108	MPa	ISO 527
Strain at break	2.7	%	ISO 527
Flexural modulus	6210	MPa	ISO 178
Flexural strength	165	MPa	ISO 178
Izod impact strength, +23°C, 4mm	47	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	6850	MPa	ASTM D 638
Tensile Strength at Break	108	MPa	ASTM D 638
Elongation at Break	3	%	ASTM D 638
Flexural Modulus	6080	MPa	ASTM D 790
Flexural Strength	165	MPa	ASTM D 790
Izod Impact notched, 1/8 in	42	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	279	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	135	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
<b>ASTM Data</b>			
DTUL @ 264 psi	135	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1390	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1390	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

**Special Characteristics**

Flame retardant

**Additives**

Flame retarding agent

**Regional Availability**

North America, Europe, Asia Pacific