

Product Texts

LNP THERMOCOMP DF004P compound is based on Polycarbonate (PC) resin containing 20% glass fiber. Added features of this grade include: Exceptional Processing.

UL Yellow Card Link [E207780-101358156](https://www.ulprospector.com/PC/properties/207780-101358156)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6200	MPa	ISO 527
Stress at break	102	MPa	ISO 527
Strain at break	2.6	%	ISO 527
Izod impact strength, +23°C, 4mm	47	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Strength at Break	106	MPa	ASTM D 638
Elongation at Break	1.6	%	ASTM D 638
Flexural Modulus	6390	MPa	ASTM D 790
Izod Impact notched, 1/8 in	91	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	725	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	97	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	138	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
ASTM Data			
DTUL @ 66 psi	138	°C	ASTM D 648
DTUL @ 264 psi	95	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.05	%	Sim. to ISO 62
Density	1340	kg/m ³	ISO 1183
Water Absorption, 24hr	0.05	%	ASTM D 570
Density	1340	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

Regional Availability

Asia Pacific