

Product Texts

LNP THERMOCOMP DF004RXP compound is based on Polycarbonate (PC) resin containing 20% glass fiber. Added features of this grade include: Mold Release.

UL Yellow Card Link [E207780-101282820](https://www.ul.com/yellow-card/E207780-101282820)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.7	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	5720	MPa	ISO 527
Yield stress	105	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	103	MPa	ISO 527
Strain at break	3.3	%	ISO 527
Flexural modulus	5880	MPa	ISO 178
Izod impact strength, +23°C, 4mm	53	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	12	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	6100	MPa	ASTM D 638
Tensile Strength at Yield	105	MPa	ASTM D 638
Tensile Strength at Break	102	MPa	ASTM D 638
Elongation at Yield	2.9	%	ASTM D 638
Elongation at Break	3.2	%	ASTM D 638
Flexural Modulus	6070	MPa	ASTM D 790
Izod Impact notched, 1/8 in	125	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	895	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	140	°C	ISO 75-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	29	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	53.8	E-6/K	ASTM D 696
DTUL @ 264 psi	141	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1350	kg/m ³	ISO 1183
Water Absorption, 24hr	0.13	%	ASTM D 570
Density	1350	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110	°C	-
Pre-drying - Time	3 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	285 - 310	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 290	°C	-
Zone 3	280 - 300	°C	-
Screw speed	50 - 90	rpm	-
Back pressure	0.1 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific