

Product Texts

LNP THERMOCOMP DF005 compound is based on Polycarbonate (PC) resin containing 25% glass fiber.

UL Yellow Card Link [E121562-101344533](https://www.ul.com/yellowcard/E121562-101344533)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.35	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.65	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	7890	MPa	ISO 527
Yield stress	109	MPa	ISO 527
Yield strain	2.7	%	ISO 527
Stress at break	107	MPa	ISO 527
Strain at break	3.3	%	ISO 527
Flexural modulus	6990	MPa	ISO 178
Flexural strength	180	MPa	ISO 178
Izod impact strength, +23°C, 4mm	54	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	8330	MPa	ASTM D 638
Tensile Strength at Yield	109	MPa	ASTM D 638
Tensile Strength at Break	108	MPa	ASTM D 638
Elongation at Yield	3	%	ASTM D 638
Elongation at Break	3.4	%	ASTM D 638
Flexural Modulus	7020	MPa	ASTM D 790
Izod Impact notched, 1/8 in	109	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	901	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	141	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	145	°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-1	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	2	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	7	E-6/K	ASTM D 696
DTUL @ 66 psi	144	°C	ASTM D 648
DTUL @ 264 psi	141	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.2	%	Sim. to ISO 62
Water Absorption, 24hr	0.14	%	ASTM D 570
Density	1400	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	-

LNP™ THERMOCOMP™ Compound DF005

PC-GF25

Saudi Basic Industries Corporation (SABIC)

Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific