

Product Texts

LNP THERMOCOMP 9F005P compound is based on Polycarbonate (PC) resin containing 25% glass fiber. Added features of this grade include: Exceptional Processing, CLTE close to Aluminum.

UL Yellow Card Link [E121562-104050517](https://www.ul.com/yellow-card/E121562-104050517)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	47	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	56	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.39	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.53	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	8280	MPa	ISO 527
Yield stress	105	MPa	ISO 527
Yield strain	2	%	ISO 527
Stress at break	105	MPa	ISO 527
Strain at break	3	%	ISO 527
Flexural modulus	7990	MPa	ISO 178
Flexural strength	168	MPa	ISO 178
Charpy impact strength, +23°C	33	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	9	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	27	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	8245	MPa	ASTM D 638
Tensile Strength at Yield	130	MPa	ASTM D 638
Tensile Strength at Break	130	MPa	ASTM D 638
Elongation at Yield	2	%	ASTM D 638
Elongation at Break	2	%	ASTM D 638
Flexural Modulus	7250	MPa	ASTM D 790
Izod Impact notched, 1/8 in	98	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	449	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	130	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	135	°C	ISO 75-1/-2
Vicat softening temperature, B	129	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
ASTM Data			
DTUL @ 66 psi	135	°C	ASTM D 648
DTUL @ 264 psi	130	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	200	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	0.06	%	Sim. to ISO 62
Humidity absorption	0.01	%	Sim. to ISO 62
Water Absorption, 24hr	0.01	%	ASTM D 570
Density	1330	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	95 - 105	°C	-
Pre-drying - Time	2	h	-
Processing humidity	≤0.02	%	-
Melt temperature	245 - 255	°C	-
Mold temperature	90	°C	-
Zone 1	240 - 245	°C	-
Zone 2	245 - 250	°C	-
Zone 3	245 - 250	°C	-
Screw speed	≥65	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Applications

Automotive