

Product Texts

LNP THERMOCOMP 6F006I compound is based on Polycarbonate / Polybutylene Terephthalate (PC/PBT) blend containing 30% glass fiber. Added features of this grade include: Impact Modified.

UL Yellow Card Link [E207780-103938404](https://www.ulprospector.com/usa/Products/Plastics/PC/PBT/6F006I)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	19	cm ³ /10min	ISO 1133
Temperature	265	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	24	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	8500	MPa	ISO 527
Yield stress	105	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	105	MPa	ISO 527
Strain at break	3	%	ISO 527
Flexural modulus	7750	MPa	ISO 178
Charpy notched impact strength, +23°C, 3mm	9	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	10	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	9750	MPa	ASTM D 638
Tensile Strength at Yield	97	MPa	ASTM D 638
Tensile Strength at Break	91	MPa	ASTM D 638
Elongation at Yield	3	%	ASTM D 638
Elongation at Break	4	%	ASTM D 638
Flexural Modulus	5370	MPa	ASTM D 790
Rockwell Hardness	R 109	-	ASTM D 785
Izod Impact notched, 1/8 in	170	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	112	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	640	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	155	°C	ISO 75-1/-2
Vicat softening temperature, B	148	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	150	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 264 psi	163	°C	ASTM D 648
Vicat Temperature	153	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dissipation Factor, 1 MHz	0.02	-	ASTM D 150
Dielectric Constant, 1 MHz	4	-	ASTM D 150
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

LNP™ THERMOCOMP™ Compound 6F006I

(PC+PBT)-GF30

Saudi Basic Industries Corporation (SABIC)

Other properties	Value	Unit	Test Standard
Water absorption	0.5	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1440	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	260 - 280	°C	-
Mold temperature	65 - 95	°C	-
Zone 1	250 - 270	°C	-
Zone 2	255 - 275	°C	-
Zone 3	260 - 280	°C	-
Screw speed	50	rpm	-
Back pressure	0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

High impact or impact modified