

**LNP™ THERMOTUF™ Compound ENH2900A**

(PC+PBT)

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

LNP THERMOTUF ENH2900A compound is based on Polycarbonate / Polybutylene Terephthalate (PC/PBT) blend. Added features of this grade include: Non-Chlorinated, Non-Brominated Flame Retardant, Good Flow, Impact Modified and Improved Chemical Resistance. It was designed to be suitable for E&E and Healthcare housing applications.

UL Yellow Card Link [E121562-102624523](https://www.ul.com/yellow-card/E121562-102624523)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	26	g/10min	ASTM D 1238
Temperature	266	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Modulus	2480	MPa	ASTM D 638
Tensile Strength at Yield	63	MPa	ASTM D 638
Tensile Strength at Break	42	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	65	%	ASTM D 638
Flexural Modulus	2240	MPa	ASTM D 790
Izod Impact notched, 1/8 in	550	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	1.1	mm	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	2.5	mm	-
<b>ASTM Data</b>			
DTUL @ 264 psi	78	°C	ASTM D 648
Vicat Temperature	102	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1200	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.04	%	-
Melt temperature	245 - 275	°C	-
Mold temperature	60 - 80	°C	-
Zone 1	220 - 255	°C	-
Zone 2	220 - 265	°C	-
Zone 3	245 - 275	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

**Characteristics****Processing**

Injection Molding

**Additives**

Flame retarding agent

**Chemical Resistance**

General Chemical Resistance

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

Flame retardant, High impact or impact modified