

**LNP™ THERMOCOMP™ Compound NX11302**

(PC+ABS)

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

LNP THERMOCOMP NX11302 compound is based on Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS) blend containing proprietary fillers. Added features of this grade include: Colorable, Improved Plating Surface and Mechanical Performance suitable for Laser Direct Structuring (LDS) applications.

UL Yellow Card Link [E207780-100974177](https://www.ul.com/yellowcard/E207780-100974177)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	14	cm <sup>3</sup> /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.6	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.6	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Modulus	2350	MPa	ASTM D 638
Tensile Strength at Yield	47	MPa	ASTM D 638
Tensile Strength at Break	46	MPa	ASTM D 638
Elongation at Yield	4.6	%	ASTM D 638
Elongation at Break	75	%	ASTM D 638
Flexural Modulus	2230	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 thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.6	mm	-
<b>ASTM Data</b>			
DTUL @ 264 psi	106	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.01	%	ASTM D 570
Density	1220	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	85 - 95	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.01	%	-
Melt temperature	220 - 260	°C	-
Mold temperature	40 - 75	°C	-
Zone 1	200 - 250	°C	-
Zone 2	215 - 255	°C	-
Zone 3	215 - 255	°C	-
Screw speed	50 - 100	rpm	-
Back pressure	0.5 - 0.9	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Applications**

Automotive