

LNP™ THERMOCOMP™ Compound NX10302

(PC+ABS)

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP NX10302 compound is based on Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS) blend containing proprietary fillers and available in black color only. Added features of this grade include: Improved Plating Surface and Mechanical Performance suitable for Laser Direct Structuring (LDS) applications.

UL Yellow Card Link [E207780-101343771](https://www.ul.com/yellowcard/E207780-101343771)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	14	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
ASTM Data			
Mold Shrinkage, MD	0.625	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.53	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	2480	MPa	ASTM D 638
Tensile Strength at Yield	46	MPa	ASTM D 638
Tensile Strength at Break	47	MPa	ASTM D 638
Elongation at Yield	4.2	%	ASTM D 638
Elongation at Break	100	%	ASTM D 638
Flexural Modulus	2400	MPa	ASTM D 790
Izod Impact notched, 1/8 in	600	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.6	mm	-
ASTM Data			
DTUL @ 264 psi	108	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.02	%	ASTM D 570
Density	1260	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	85 - 100	°C	-
Pre-drying - Time	6 - 8	h	-
Melt temperature	250 - 290	°C	-
Mold temperature	60 - 90	°C	-
Zone 1	250 - 270	°C	-
Zone 2	250 - 270	°C	-
Zone 3	250 - 280	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Applications

Automotive