

Product Texts

LNP THERMOCOMP AX06437 compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing proprietary fillers. Added features of this grade include: Improved Plating Surface and Mechanical Performance suitable for Laser Direct Structuring (LDS) applications.

UL Yellow Card Link [E207780-101345219](https://www.ul.com/yellow-card-link/E207780-101345219)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.6	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	36	MPa	ISO 527
Yield strain	1.9	%	ISO 527
Stress at break	33	MPa	ISO 527
Strain at break	7.5	%	ISO 527
Flexural modulus	3010	MPa	ISO 178
Flexural strength	64	MPa	ISO 178
Izod impact strength, +23°C	22	kJ/m ²	ISO 180/1U
Izod impact strength, +23°C, 4mm	22	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 3mm	3	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3180	MPa	ASTM D 638
Tensile Strength at Yield	37	MPa	ASTM D 638
Tensile Strength at Break	34	MPa	ASTM D 638
Elongation at Yield	1.8	%	ASTM D 638
Elongation at Break	6.9	%	ASTM D 638
Flexural Modulus	3060	MPa	ASTM D 790
Izod Impact notched, 1/8 in	26	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	288	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	87	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	HB 1.5	class mm	IEC 60695-11-10 -
ASTM Data			
DTUL @ 264 psi	86	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.32	%	Sim. to ISO 62
Density	1170	kg/m ³	ISO 1183
Water Absorption, 24hr	0.22	%	ASTM D 570
Density	1170	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	260	°C	-
Mold temperature	70 - 80	°C	-
Zone 1	205 - 215	°C	-
Zone 2	230 - 245	°C	-
Zone 3	265 - 275	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Applications

Automotive