

Product Texts

LNP THERMOCOMP RB008 compound is based on Nylon 6/6 resin containing 40% glass bead.

UL Yellow Card Link [E121562-101281616](https://www.ul.com/yellowcard/E121562-101281616)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.9	%	ISO 294-4, 2577
Molding shrinkage, normal	2.0	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	1.9	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	5300	MPa	ISO 527
Stress at break	58	MPa	ISO 527
Strain at break	2.7	%	ISO 527
Flexural modulus	4060	MPa	ISO 178
Flexural strength	103	MPa	ISO 178
Izod impact strength, +23°C, 4mm	20	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	2	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	5100	MPa	ASTM D 638
Tensile Strength at Break	55	MPa	ASTM D 638
Elongation at Break	3.3	%	ASTM D 638
Flexural Modulus	3780	MPa	ASTM D 790
Flexural Strength	102	MPa	ASTM D 790
Izod Impact notched, 1/8 in	32	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	229	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	102	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 264 psi	68	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	1.55	%	Sim. to ISO 62
Density	1450	kg/m ³	ISO 1183
Water Absorption, 24hr	1.2	%	ASTM D 570
Density	1460	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	≤0.25	%	-
Melt temperature	280 - 305	°C	-
Mold temperature	95 - 110	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America