

## LNP\* Thermocomp\* Compound IX04513C

**Americas: COMMERCIAL** 

## Also known as: PDX-I-04513 CCS Product Reorder Name: IX04513C

LNP THERMOCOMP\* IX04513C is a compound based on Nylon 6/12 resin containing Glass Fiber. Added features of this material include: Clean Compounding System.

## Property

TYPICAL PROPERTIES <sup>(1)</sup>			
MECHANICAL	Value	Unit	Standard
Tensile Stress, break	130	MPa	ASTM D 638
Tensile Strain, break	2.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	8830	MPa	ASTM D 638
Flexural Stress	204	MPa	ASTM D 790
Flexural Modulus	8080	MPa	ASTM D 790
Tensile Stress, break	128	MPa	ISO 527
Tensile Strain, break	2.2	%	ISO 527
Tensile Modulus, 1 mm/min	8290	MPa	ISO 527
Flexural Stress	187	MPa	ISO 178
Flexural Modulus	7110	MPa	ISO 178
ІМРАСТ	Value	Unit	Standard
Izod Impact, unnotched, 23°C	688	J/m	ASTM D 4812
Izod Impact, notched, 23°C	69	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	10	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	41	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	197	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.14E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.32E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.04E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.33E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	192	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.301	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.15	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.9 - 1.1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.2 - 0.4	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.9 - 1.1	%	ISO 294
Density	1.29	g/cm <sup>3</sup>	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.21	%	ISO 62

Processing

Source GMD, last updated:10/02/2004

Value	Unit
80	°C
4	hrs
0.12 - 0.2	%
270 - 275	°C
270 - 280	°C
260 - 270	°C
255 - 265	°C
65 - 95	°C
0.2 - 0.3	MPa
30 - 60	rpm
	80 4 0.12 - 0.2 270 - 275 270 - 280 260 - 270 255 - 265 65 - 95 0.2 - 0.3

Source GMD, last updated:10/02/2004

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

## PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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