



LNP* Thermocomp* Compound MX88073

Asia Pacific: COMMERCIAL

Also known as: LNP* Thermocomp* Compound PDX-M-88073

Product reorder name: MX88073

LNP* Thermocomp* MX88073 is a compound based on Polypropylene resin containing Glass Fiber.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yield	550	kgf/cm ²	ASTM D 638
Tensile Stress, break	540	kgf/cm ²	ASTM D 638
Tensile Strain, yield	2.6	%	ASTM D 638
Tensile Strain, break	2.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	688900	kgf/cm ²	ASTM D 638
Flexural Stress	840	kgf/cm ²	ASTM D 790
Flexural Modulus	54000	kgf/cm ²	ASTM D 790
Tensile Stress, yield	52	MPa	ISO 527
Tensile Stress, break	52	MPa	ISO 527
Tensile Strain, yield	2.7	%	ISO 527
Tensile Strain, break	3	%	ISO 527
Tensile Modulus, 1 mm/min	5830	MPa	ISO 527
Flexural Stress	85	MPa	ISO 178
Flexural Modulus	6000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	43	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	10	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	115	cm-kgf	ASTM D 3763
Multiaxial Impact	56	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	26	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	156	°C	ASTM D 648

1) Typical values only. Variations within normal tolerances are possible for various colours. All values are measured at least after 48 hours storage at 23°C/50% relative humidity.
All properties, except the melt volume rate are measured on injection moulded samples.
All samples are prepared according to ISO 294.

2) Only typical data for material selection purpose. 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) Own measurement according to UL.



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	132	°C	ASTM D 648
CTE, -40°C to 40°C, flow	8.46E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.32E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	8.4E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.4E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	153	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	127	°C	ISO 75/Af
PHYSICAL			
Density	1.15	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs		%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.92	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.1	%	ISO 294
Density	1.14	g/cm ³	ISO 1183

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