



LNP™ THERMOCOMP™ Compound 9X07430

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound 9X07430

Product reorder name: 9X07430

LNP THERMOCOMP 9X07430 is a compound based on a PBT+PC Blend containing Glass Fiber, Talc. Added features of this material include: Opaque, Weatherable.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	580	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	520	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.9	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	4.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	33600	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1000	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	32000	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	60	MPa	ISO 527
Tensile Stress, break, 5 mm/min	56	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3.1	%	ISO 527
Tensile Strain, break, 5 mm/min	4.9	%	ISO 527
Tensile Modulus, 1 mm/min	3160	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	97	MPa	ISO 178
Flexural Modulus, 2 mm/min	3020	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	72	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	8	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	91	cm-kgf	ASTM D 3763
Instrumented Impact Energy @ peak, -30	30	cm-kgf	ASTM D 3763
Multiaxial Impact	71	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	142	cm-kgf	ASTM D 3763
Instrumented Impact Total Energy, -30°C	71	cm-kgf	ASTM D 3763

(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.
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:
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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	47	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	102	°C	ASTM D 648
CTE, -40°C to 40°C, flow	5.7E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	8.3E-05	1/°C	ASTM E 831
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	105	°C	ISO 75/Af
PHYSICAL			
Density	1.31	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.11	%	ASTM D 570
Mold Shrinkage, flow (5)	0.51	%	SABIC Method
Mold Shrinkage, xflow (5)	0.59	%	SABIC Method
Mold Shrinkage, flow, 24 hrs (5)	0.5 - 0.51	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.58 - 0.59	%	ASTM D 955
Density	1.31	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.16	%	ISO 62

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80 - 110	°C
Drying Time	4 - 6	hrs
Drying Time (Cumulative)	24	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	260 - 280	°C
Nozzle Temperature	260 - 280	°C
Front - Zone 3 Temperature	260 - 280	°C
Middle - Zone 2 Temperature	255 - 275	°C
Rear - Zone 1 Temperature	245 - 270	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.3 - 0.7	MPa

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