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LNP™ THERMOCOMP™ Compound AX04518

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound PDX-A-04518

Product reorder name: AX04518

LNP THERMOCOMP AX04518 is a compound based on ABS resin containing proprietary filler(s).

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	790	kgf/cm²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	790	kgf/cm²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.8	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	68800	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1140	kgf/cm²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1120	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	63800	kgf/cm²	ASTM D 790
Tensile Stress, yield, 5 mm/min	74	MPa	ISO 527
Tensile Stress, break, 5 mm/min	74	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.7	%	ISO 527
Tensile Strain, break, 5 mm/min	1.7	%	ISO 527
Tensile Modulus, 1 mm/min	6330	MPa	ISO 527
Flexural Stress	98	MPa	ISO 178
Flexural Modulus, 2 mm/min	5990	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	27	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Multiaxial Impact	24	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	90	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	15	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
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Source GMD, last updated:

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⁽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.

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

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(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.

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YPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	119	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	114	°C	ASTM D 648
CTE, -30°C to 30°C, flow	6.E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.9E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	120	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	115	°C	ISO 75/Af
PHYSICAL			
Density	1.21	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.67	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.4 - 0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.6 - 0.8	%	ASTM D 955
Density	1.21	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.4	%	ISO 62

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ROCESSING PARAMETERS	TYPICAL VALUE Unit		
Injection Molding			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05 - 0.1	%	
Melt Temperature	260	°C	
Front - Zone 3 Temperature	265 - 275	°C	
Middle - Zone 2 Temperature	230 - 245	°C	
Rear - Zone 1 Temperature	205 - 215	°C	
Mold Temperature	70 - 80	°C	
Back Pressure	0.2 - 0.3	MPa	
Screw Speed	30 - 60	rpm	

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