

LNP* Thermocomp* Compound YH0235AC

Americas: COMMERCIAL

LNP* Thermocomp* YH0235AC is a compound based on Polyester Elastomer containing a metal filler.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Hardness, Shore D	35	-	ASTM D 2240
IMPACT			
Multiaxial Impact	133	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	116	cm-kgf	ASTM D 3763
THERMAL			
CTE, -30°C to 30°C, flow	2.68E-04	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	2.57E-04	1/°C	ASTM D 696
PHYSICAL			
Specific Gravity	2.35	-	ASTM D 792
Density	2.35	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.29	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.3 - 0.5	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.27	%	ISO 62

(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±176.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.

Source GMD, last updated:

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	230	°C
Front - Zone 3 Temperature	230	°C
Middle - Zone 2 Temperature	230	°C
Rear - Zone 1 Temperature	230	°C
Mold Temperature	50	°C
Back Pressure	0.3	MPa

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