

LNP* Thermocomp* Compound LX08411

Americas: COMMERCIAL

LNP* Thermocomp* LX08411 is a compound based on Polyetheretherketone resin containing Carbon Fiber.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	270	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	270	MPa	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	23510	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	366	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	366	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	25000	MPa	ASTM D 790
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	775	J/m	ASTM D 4812
Izod Impact, notched, 23°C	70	J/m	ASTM D 256
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	341	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	327	°C	ASTM D 648
PHYSICAL	Value	Unit	Standard
Density	1.45	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.03	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.28	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.75 - 0.85	%	ASTM D 955

Source GMD, last updated:2010/07/12

Processing

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.

(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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