

LNP* Thermocomp* Compound RW008XXZ

Americas: COMMERCIAL

Also known as: THERMOCOMP RM-3280
Product Reorder Name: RW008XXZ

LNP* Thermocomp* RW008XXZ is a compound based on Nylon 6/6 resin containing Wollastonite.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	77	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	6810	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	122	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	5880	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	77	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.9	%	ISO 527
Tensile Modulus, 1 mm/min	6000	MPa	ISO 527
Flexural Stress	123	MPa	ISO 178
Flexural Modulus, 2 mm/min	5510	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	400	J/m	ASTM D 4812
Izod Impact, notched, 23°C	31	J/m	ASTM D 256
Multiaxial Impact	1	J	ISO 6603
Instrumented Impact Total Energy, 23°C	6	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	24	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	242	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	143	°C	ASTM D 648
CTE, -30°C to 30°C, flow	5.63E+01	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	7.09E+01	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	229	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	110	°C	ISO 75/Af
PHYSICAL			
Density	1.53	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.61	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1 - 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1 - 3	%	ASTM D 955
Density	1.52	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.86	%	ISO 62

Source GMD, last updated:2009/06/19

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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