LNP™ THERMOCOMP™ Compound EX00781H

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound PDX-E-00781 EES
Product reorder name: EX00781H

LNP THERMOCOMP EX00781H is a compoud based on Polyetherimide containng Proprietary Filler(s). Added feature of this material is: Healthcare.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	920	kgf/cm²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	920	kgf/cm²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	5.9	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	5.3	%	ASTM D 638
Tensile Modulus, 5 mm/min	33900	kgf/cm²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1470	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	32100	kgf/cm²	ASTM D 790
Tensile Stress, yield, 5 mm/min	91	MPa	ISO 527
Tensile Stress, break, 5 mm/min	89	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	5.5	%	ISO 527
Tensile Strain, break, 5 mm/min	6	%	ISO 527
Tensile Modulus, 1 mm/min	3250	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	148	MPa	ISO 178
Flexural Modulus, 2 mm/min	3310	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	4	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	189	°C	ASTM D 648
Vicat Softening Temp, Rate B/120	213	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	189	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.31	-	ASTM D 792
Melt Flow Rate, 337°C/6.6 kgf	12.3	g/10 min	ASTM D 1238

(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
PHYSICAL			
Density	1.31	g/cm³	ISO 1183
Melt Volume Rate, MVR at 340°C/5.0 kg	10	cm³/10 min	ISO 1133

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4 - 6	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	360 - 365	°C
Front - Zone 3 Temperature	365 - 375	°C
Middle - Zone 2 Temperature	355 - 365	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	120 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm

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