



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 compound 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/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	920	kgf/cm ²	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/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1470	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	32100	kgf/cm ²	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/m ²	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





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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

