



LNP™ THERMOCOMP™ Compound RX06421S

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound RF-1006 EM HS CCS

Product reorder name: RX06421S

LNP THERMOCOMP RX06421S is a compound based on Nylon 66 resin containing 30% Glass Fiber. Added features of this material include: Easy Molding, Heat Stabilized, Clean Compounding System.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	1840	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	112100	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2690	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	98000	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	181	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.6	%	ISO 527
Tensile Modulus, 1 mm/min	10550	MPa	ISO 527
Flexural Modulus, 2 mm/min	9480	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	98	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	9	cm-kgf/cm	ASTM D 256
Multiaxial Impact	22	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	82	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	57	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	255	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	243	°C	ASTM D 648
CTE, -30°C to 30°C, flow	2.52E+01	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.04E+02	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	256	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	239	°C	ISO 75/Af



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PHYSICAL			
Specific Gravity	1.39	-	ASTM D 792
Density	1.38	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.75	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1 - 3	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	1.2	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	280 - 305	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	95 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm