



LNP™ THERMOCOMP™ Compound RX12402

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound RX12402

Product reorder name: RX12402

LNP THERMOCOMP RX12402 is a compound based on Nylon 66 containing 60% Glass Fiber. Added feature of this grade is: Superior Flow.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	2450	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.4	%	ASTM D 638
Tensile Modulus, 5 mm/min	222700	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	3780	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	182500	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	240	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.2	%	ISO 527
Tensile Modulus, 1 mm/min	20570	MPa	ISO 527
Flexural Stress	357	MPa	ISO 178
Flexural Modulus, 2 mm/min	18120	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	127	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	15	cm-kgf/cm	ASTM D 256
Multiaxial Impact	44	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	101	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	75	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	13	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	253	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	240	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.9E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.E-06	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	250	°C	ISO 75/Bf



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THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	237	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.7	-	ASTM D 792
Density	1.72	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.48	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.9 - 2	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.73	%	ISO 62
FLAME CHARACTERISTICS			
UL Recognized, 94HB Flame Class Rating (3)	1.5	mm	UL 94



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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