+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

LNP™ THERMOCOMP™ Compound RB006

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound RB-1006
Product reorder name: RB006

LNP THERMOCOMP RB006 is a compound based on Nylon 66 resin containing 30% Glass Bead.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	680	kgf/cm²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	590	kgf/cm²	ASTM D 638
Tensile Strain, break	3	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	6.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	69400	kgf/cm²	ASTM D 638
Flexural Stress	1260	kgf/cm²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	880	kgf/cm²	ASTM D 790
Flexural Modulus	47800	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	41300	kgf/cm²	ASTM D 790
Tensile Stress, break, 5 mm/min	56	MPa	ISO 527
Tensile Strain, break, 5 mm/min	7.6	%	ISO 527
Tensile Modulus, 1 mm/min	7280	MPa	ISO 527
Flexural Stress	4001	MPa	ISO 178
Flexural Modulus, 2 mm/min	3840	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	39	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	4	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	25	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	100	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	92	°C	ASTM D 648
CTE, -30°C to 30°C, flow	6.28E+01	1/°C	ASTM D 696

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

LNP™ THERMOCOMP™ Compound RB006

Americas: COMMERCIAL

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -30°C to 30°C, xflow	6.19E+01	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	101	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	95	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.38	-	ASTM D 792
Density	1.36	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.72	%	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	1.38	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.72	%	ISO 62

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

LNP™ THERMOCOMP™ Compound RB006

Americas: COMMERCIAL

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