



LNP™ THERMOCOMP™ Compound QF0069

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound QF-1006 FR-1

Product reorder name: QF0069

LNP THERMOCOMP QF0069 is a compound based on Nylon 6/10 resin containing 30% Glass Fiber. Added features of this material include: Flame Retardant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	1530	kgf/cm ²	ASTM D 638
Tensile Stress, break	1530	kgf/cm ²	ASTM D 638
Tensile Strain, yield	2	%	ASTM D 638
Tensile Strain, break	2	%	ASTM D 638
Tensile Modulus, 50 mm/min	112400	kgf/cm ²	ASTM D 638
Flexural Stress	2030	kgf/cm ²	ASTM D 790
Flexural Modulus	98400	kgf/cm ²	ASTM D 790
Tensile Stress, yield	145	MPa	ISO 527
Tensile Stress, break	145	MPa	ISO 527
Tensile Strain, yield	1.8	%	ISO 527
Tensile Strain, break	1.8	%	ISO 527
Tensile Modulus, 1 mm/min	11020	MPa	ISO 527
Flexural Stress	197	MPa	ISO 178
Flexural Modulus	9000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	61	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	6	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	96	cm-kgf	ASTM D 3763
Multiaxial Impact	21	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	37	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	220	°C	ASTM D 648



LNP™ THERMOCOMP™ Compound QF0069

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	201	°C	ASTM D 648
CTE, -40°C to 40°C, flow	6.66E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.96E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	6.7E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	218	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	197	°C	ISO 75/Af
PHYSICAL			
Density	1.56	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.8 - 1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.29	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.86	%	ISO 294
Density	1.56	g/cm ³	ISO 1183



LNP™ THERMOCOMP™ Compound QF0069

Americas: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.12 - 0.2	%
Melt Temperature	270 - 275	°C
Front - Zone 3 Temperature	270 - 280	°C
Middle - Zone 2 Temperature	260 - 270	°C
Rear - Zone 1 Temperature	250 - 260	°C
Mold Temperature	80 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm