+135-3858-6433 (GuangDong)
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LNP™ THERMOCOMP™ Compound QF006

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound QF-1006
Product reorder name: QF006

LNP THERMOCOMP™ QF006 is a compound based on Nylon 6/10 resin containing 30% Glass Fiber.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1530	kgf/cm²	ASTM D 638
Tensile Strain, break	3.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	85700	kgf/cm²	ASTM D 638
Flexural Stress	2550	kgf/cm²	ASTM D 790
Flexural Modulus	80100	kgf/cm²	ASTM D 790
Tensile Stress, break	153	MPa	ISO 527
Tensile Strain, break	3.5	%	ISO 527
Tensile Modulus, 1 mm/min	8800	MPa	ISO 527
Flexural Stress	219	MPa	ISO 178
Flexural Modulus	7800	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	113	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	12	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	101	cm-kgf	ASTM D 3763
Multiaxial Impact	27	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	71	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	220	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	207	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.05E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.27E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	3.06E-05	1/°C	ISO 11359-2

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, xflow	7.27E-05	1/°C	ISO 11359-2
PHYSICAL			
Density	1.309	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.17 - 0.18	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.98 - 0.99	%	ISO 294
Density	1.3	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.33	%	ISO 62
FLAME CHARACTERISTICS			
UL Compliant, 94HB Flame Class Rating (3)(4)	1.5	mm	UL 94 by SABIC-IP

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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