



LNP™ THERMOCOMP™ Compound UF0069S

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound UF-1006 FR HS LEX

Product reorder name: UF0069S

LNP THERMOCOMP™ UF0069S is a compound based on Polyphthalamide resin containing 30% Glass Fiber. Added features of this material include: Flame Retardant, Heat Stabilized.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1850	kgf/cm ²	ASTM D 638
Tensile Strain, break	1.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	140600	kgf/cm ²	ASTM D 638
Flexural Stress	2630	kgf/cm ²	ASTM D 790
Flexural Modulus	123000	kgf/cm ²	ASTM D 790
Tensile Stress, break	166	MPa	ISO 527
Tensile Strain, break	1.7	%	ISO 527
Tensile Modulus, 1 mm/min	12070	MPa	ISO 527
Flexural Stress	264	MPa	ISO 178
Flexural Modulus	12320	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	56	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	9	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	29	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	44	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1A
PHYSICAL			
Density	1.655	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.24	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.22	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.59	%	ISO 294



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Density	1.65	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.26	%	ISO 62
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating (3)	1.5	mm	UL 94
UL Recognized, 94-5VA Rating (3)	1.5	mm	UL 94



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15	%
Melt Temperature	300 - 310	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	290 - 300	°C
Rear - Zone 1 Temperature	280 - 295	°C
Mold Temperature	140 - 165	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm