LNP™ THERMOCOMP™ Compound RF008ESY

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound RF-1008 EM HS
Product reorder name: RF008ESY

LNP THERMOCOMP™ RF008ESY is a compound based on Nylon 66 resin containing 40% Glass Fiber. Added features of this material include: Easy Molding, Heat Stabilized.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1720	kgf/cm²	ASTM D 638
Tensile Strain, break	2.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	132800	kgf/cm²	ASTM D 638
Flexural Stress	2510	kgf/cm²	ASTM D 790
Flexural Modulus	92800	kgf/cm²	ASTM D 790
Tensile Stress, break	168	MPa	ISO 527
Tensile Strain, break	2.8	%	ISO 527
Tensile Modulus, 1 mm/min	11900	MPa	ISO 527
Flexural Stress	263	MPa	ISO 178
Flexural Modulus	11300	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	111	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	11	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	119	cm-kgf	ASTM D 3763
Multiaxial Impact	37	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	74	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	12	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	251	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	229	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	227	°C	ISO 75/Af
PHYSICAL			
Density	1.471	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.77	%	ASTM D 570

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.17	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.05	%	ISO 294
Density	1.46	g/cm³	ISO 1183
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	0.15 - 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