



LNP™ THERMOCOMP™ Compound RF00CSXZ

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound RF-100-12 HS

Product reorder name: RF00CSXZ

LNP THERMOCOMP RF00CSXZ is a compound based on Recycled Nylon 66 resin containing 60% Glass Fiber. Added features of this material include: Heat Stabilized.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	2580	kgf/cm ²	ASTM D 638
Tensile Stress, break	2580	kgf/cm ²	ASTM D 638
Tensile Strain, yield	2.2	%	ASTM D 638
Tensile Strain, break	2.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	217900	kgf/cm ²	ASTM D 638
Flexural Stress	3650	kgf/cm ²	ASTM D 790
Flexural Modulus	196800	kgf/cm ²	ASTM D 790
Tensile Stress, yield	253	MPa	ISO 527
Tensile Stress, break	253	MPa	ISO 527
Tensile Strain, yield	2	%	ISO 527
Tensile Strain, break	2	%	ISO 527
Tensile Modulus, 1 mm/min	21360	MPa	ISO 527
Flexural Stress	375	MPa	ISO 178
Flexural Modulus	20000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	125	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	16	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	105	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	76	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	19	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	260	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	255	°C	ASTM D 648



LNP™ THERMOCOMP™ Compound RF00CSXZ

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, flow	3.78E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.62E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	3.8E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.6E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	260	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	254	°C	ISO 75/Af
PHYSICAL			
Density	1.72	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.3	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.29	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.44	%	ISO 294
Density	1.72	g/cm ³	ISO 1183



LNP™ THERMOCOMP™ Compound RF00CSXZ

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