LNP™ COLORCOMP™ Compound R1000

Americas: COMMERCIAL

Also known as: LNP™ COLORCOMP™ Compound R-1000
Product reorder name: R1000

LNP™ COLORCOMP™ R1000 is an unfilled Nylon 66.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield, 5 mm/min	79	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	11	%	ISO 527
Tensile Strain, break, 5 mm/min	45	%	ISO 527
Tensile Modulus, 1 mm/min	2990	MPa	ISO 527
Flexural Stress	33	MPa	ISO 178
Flexural Modulus, 2 mm/min	2900	MPa	ISO 178
IMPACT			
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
Charpy Impact, notched, 23°C	6	kJ/m²	ISO 179/2C
Charpy Impact, notched, -30°C	6	kJ/m²	ISO 179/2C
THERMAL			
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	200	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	70	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow (5)	1.2	%	SABIC Method
Mold Shrinkage, xflow (5)	1.4	%	SABIC Method
Density	1.14	g/cm³	ISO 1183

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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	275 - 290	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	80 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm