

LNP™ COLORCOMP™ COMPOUND R1000

R-1000
REGION AMERICAS

DESCRIPTION

LNP* COLORCOMP* R1000 is an unfilled Nylon 66.

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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/m ²	ISO 180/1A
Charpy Impact, notched, 23°C	6	kJ/m ²	ISO 179/2C
Charpy Impact, notched, -30°C	6	kJ/m ²	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/cm ³	ISO 1183
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	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Rear - Zone 1 Temperature	265 – 275	°C	
Mold Temperature	80 – 95	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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