

LNP™ COLORCOMP™ COMPOUND D1000P

D-1000 EP
REGION AMERICAS

DESCRIPTION

LNP COLORCOMP D1000P is an unfilled Polycarbonate. Added feature of this grade is: Exceptional Processing.

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	62	MPa	ASTM D 638
Tensile Stress, break	56	MPa	ASTM D 638
Tensile Strain, yield	5.3	%	ASTM D 638
Tensile Strain, break	78.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	2060	MPa	ASTM D 638
Tensile Stress, yield	64	MPa	ISO 527
Tensile Stress, break	59	MPa	ISO 527
Tensile Strain, yield	5.6	%	ISO 527
Tensile Strain, break	87	%	ISO 527
Tensile Modulus, 1 mm/min	2210	MPa	ISO 527
Flexural Stress	81	MPa	ISO 178
Flexural Modulus	2300	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	544	J/m	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	13	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	123	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	124	°C	ISO 75/Af
PHYSICAL			
Density	1.2	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.6 – 0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 – 0.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.65	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.75	%	ISO 294

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.19	g/cm ³	ISO 1183
MECHANICAL PROPERTIES			
Flexural modulus	2750	MPa	ISO 178/1A
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	300 – 315	°C	
Front - Zone 3 Temperature	310 – 320	°C	
Middle - Zone 2 Temperature	305 – 315	°C	
Rear - Zone 1 Temperature	295 – 305	°C	
Mold Temperature	80 – 110	°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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