سیابک ےندائے

LNPTM COLORCOMPTM COMPOUND 11000

I-1000

DESCRIPTION

LNP COLORCOMP I1000 compound is based on unfilled Nylon 6/12 resin.

GENERAL INFORMATION	
Features	Aesthetics/Visual effects, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polyamide 612 (Nylon 612)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Interiors
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

UNITS **TEST METHODS** PROPERTIES TYPICAL VALUES MECHANICAL⁽¹⁾ Tensile Strain, brk, Type I, 5 mm/min 100 % ASTM D638 Tensile Stress, yield, 5 mm/min 62 MPa ISO 527 Tensile Strain, yield, 5 mm/min 4.5 ISO 527 % Tensile Modulus, 1 mm/min 2390 MPa ISO 527 THERMAL (1) °C ASTM D648 HDT, 1.82 MPa, 3.2mm, unannealed 55 °C HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 135 ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 62 °C ISO 75/Af PHYSICAL (1) Specific Gravity 1.06 ASTM D792 Mold Shrinkage, flow, 24 hrs (2) 1 - 3% ASTM D955 Mold Shrinkage, xflow, 24 hrs (2) % ASTM D955 1 - 3ELECTRICAL (1) Volume Resistivity 1.E+15 Ω.cm ASTM D257 1.E+12 Ω ASTM D257 Surface Resistivity Relative Permittivity, 100 Hz 3.6 ASTM D150 Relative Permittivity, 1 MHz 3.2 ASTM D150 Dissipation Factor, 100 Hz 0.02 ASTM D150 Dissipation Factor, 1 kHz 0.02 ASTM D150 ASTM D150 Dissipation Factor, 100 kHz 0.014

© 2024 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS

Revision 20231109



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
FLAME CHARACTERISTICS			
Oxygen Index (LOI)	27	%	ISO 4589
INJECTION MOLDING (3)			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.12 – 0.2	%	
Melt Temperature	270 – 275	°C	
Front - Zone 3 Temperature	270 – 280	°C	
Middle - Zone 2 Temperature	260 – 270	°C	
Rear - Zone 1 Temperature	255 – 265	°C	
Mold Temperature	65 – 95	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

- (2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
- (3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.