LNP™ COLORCOMP™ COMPOUND DX04401H

PDX-D-04401

DESCRIPTION

LNP COLORCOMP DX04401H is an unfilled Polycarbonate. Added feature of this grade is: Healthcare.

TYPICAL PROPERTY VALUES

Revision 20191218

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 50 mm/min	62	MPa	ASTM D 638
Tensile Stress, break, 50 mm/min	68	MPa	ASTM D 638
Tensile Strain, yield, 50 mm/min	6	%	ASTM D 638
Tensile Modulus, 50 mm/min	2210	MPa	ASTM D 638
Hardness, Rockwell R	118	-	ASTM D 785
Tensile Stress, yield	62	MPa	ISO 527
Tensile Stress, break	68	MPa	ISO 527
Tensile Strain, yield	6	%	ISO 527
Tensile Strain, break	150	%	ISO 527
Flexural Stress	98	MPa	ISO 178
Flexural Modulus, 2 mm/min	2400	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812
Izod Impact, notched, 23°C	750	J/m	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	75	kJ/m²	ISO 180/1A
Charpy Impact, notched, 23°C	25	kJ/m²	ISO 179/2C
Charpy Impact, notched, -30°C	12	kJ/m²	ISO 179/2C
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	122	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	120	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.2	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.15	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.5 – 0.5	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.32	%	ISO 62
Melt Volume Rate, MVR at 300°C/1.2 kg	12	cm³/10 min	ISO 1133
OPTICAL			
Refractive Index	1.586	-	ASTM D542
Refractive Index	1.586	-	ISO 489
ELECTRICAL			
Volume Resistivity	2.E+17	Ohm-cm	ASTM D 257
Dielectric Constant, 1 MHz	3	-	ASTM D 150
Dissipation Factor, 100 Hz	0.001	-	ASTM D 150
Dissipation Factor, 1 MHz	0.002	-	ASTM D 150

© 2019 Copyright by SABIC. All rights reserved

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	305 – 325	°C	
Front - Zone 3 Temperature	320 – 330	°C	
Middle - Zone 2 Temperature	310 – 320	°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

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.

© 2019 Copyright by SABIC. All rights reserved