LNP™ STAT-LOY™ COMPOUND M3000C

M- CCS

DESCRIPTION

LNP STAT-LOY M3000C is a compound based on unfilled Polypropylene resin. Added features of this grade include: Clean Compound System, Antistat.

TYPICAL PROPERTY VALUES

Revision 20191212

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	18	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	689	%	ASTM D 638
Tensile Modulus, 50 mm/min	760	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	24	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	860	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	24	MPa	ISO 527
Tensile Strain, break, 5 mm/min	690	%	ISO 527
Tensile Modulus, 1 mm/min	1180	MPa	ISO 527
Flexural Stress	38	MPa	ISO 178
Flexural Modulus, 2 mm/min	1960	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	75	J/m	ASTM D 256
Multiaxial Impact	25	J	ISO 6603
Instrumented Impact Total Energy, 23°C	29	J	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	74	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	49	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.28E-04	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.31E-04	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	75	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	49	°C	ISO 75/Af
PHYSICAL			
Density	0.93	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.16	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1 – 2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1 – 2	%	ASTM D 955
Density	0.93	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.16	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+10 – 1.E+12	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	70 – 80	°C	
Drying Time	4	hrs	

© 2019 Copyright by SABIC. All rights reserved

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Melt Temperature	190 – 200	°C	
Front - Zone 3 Temperature	200 – 210	°C	
Middle - Zone 2 Temperature	195 – 205	°C	
Rear - Zone 1 Temperature	180 – 195	°C	
Mold Temperature	30 – 50	°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