

LNP™ COLORCOMP™ COMPOUND NX05467

CYCOLOY C6200
REGION AMERICAS

DESCRIPTION

LNP COLORCOMP NX05467 is an unfilled Polycarbonate+ABS resin. Added features of this material are: Non-Chlorinated, Non-Brominated Flame Retardant.

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	66	MPa	ASTM D 638
Tensile Strain, break	50	%	ASTM D 638
Flexural Stress	103	MPa	ASTM D 790
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	87 – 91	°C	ASTM D 648
PHYSICAL			
Specific Gravity	1.18	-	ASTM D 792
Mold Shrinkage, flow (5)	0.4 – 0.6	%	SABIC method
Mold Shrinkage, xflow (5)	0.4 – 0.6	%	SABIC method
ELECTRICAL			
Volume Resistivity	1.E+15	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+15	Ohm	ASTM D 257
Dielectric Strength, in oil, 0.8 mm	890	kV/mm	IEC 60243-1
Dielectric Strength, in oil, 1.6 mm	640	kV/mm	IEC 60243-1
Dielectric Strength, in oil, 3.2 mm	430	kV/mm	IEC 60243-1
Relative Permittivity, 60 Hz	2.8	-	IEC 60250
Relative Permittivity, 1 MHz	2.7	-	IEC 60250
Dissipation Factor, 50/60 Hz	0.004	-	IEC 60250
Dissipation Factor, 1 MHz	0.008	-	IEC 60250
FLAME CHARACTERISTICS			
UL Recognized, 94HB Flame Class Rating (3)	0.7	mm	UL 94
UL Recognized, 94V-1 Flame Class Rating (3)	1.2	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating (3)	1.5	mm	UL 94

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
UL Recognized, 94-5VA Rating (3)	3.4	mm	UL 94
UL Recognized, 94-5VB Rating (3)	2.1	mm	UL 94
MECHANICAL PROPERTIES			
Flexural modulus	2680	MPa	ISO 178/1A
INJECTION MOLDING			
Drying Temperature	80 – 90	°C	
Drying Time	3 – 4	hrs	
Drying Time (Cumulative)	8	hrs	
Maximum Moisture Content	0.04	%	
Melt Temperature	245 – 275	°C	
Nozzle Temperature	245 – 275	°C	
Front - Zone 3 Temperature	245 – 275	°C	
Middle - Zone 2 Temperature	220 – 265	°C	
Rear - Zone 1 Temperature	220 – 255	°C	
Mold Temperature	60 – 80	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	30 – 80	%	
Vent Depth	0.038 – 0.076	mm	

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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