

LNP™ COLORCOMP™ 325C compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP* COLORCOMP* 325C is a general purpose, unreinforced PBT resin. Added features of this grade include improved processing. Good for applications such as sprinklers, nozzles, pumps, door handles, tank covers, pens and pencils.

Also known as: LNP* COLORCOMP* Compound 325

Product reorder name: 325C

General Information			
UL YellowCard	E121562-102809510		
Features	General		
Uses	Handle		
	Pump parts		
	Stationery		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Specific Volume	0.770	cm ³ /g	ASTM D792
Molding Shrinkage			Internal method
Flow ¹	1.5 - 2.3	%	Internal method
Flow ²	0.90 - 1.6	%	Internal method
Transverse flow ³	1.0 - 1.7	%	Internal method
Transverse flow ⁴	1.6 - 2.4	%	Internal method
Water Absorption			ASTM D570
24 hr	0.080	%	ASTM D570
Equilibrium, 23°C	0.34	%	ASTM D570
Outdoor Suitability	f1	UL 746C	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117	ASTM D785	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ⁵ (Yield)	51.7	MPa	ASTM D638
Tensile Elongation ⁶ (Break)	200	%	ASTM D638
Flexural Modulus ⁷ (50.0 mm Span)	2340	MPa	ASTM D790
Flexural Strength ⁸ (Yield, 50.0 mm Span)	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Unnotched Izod Impact (23°C)	1600	J/m	ASTM D4812
Dart Drop Impact ⁹ (23°C)	40.7	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	154	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	54.4	°C	ASTM D648
CLTE - Flow			ASTM E831
-40 to 40°C	8.1E-5	cm/cm/°C	ASTM E831
60 to 138°C	1.4E-4	cm/cm/°C	ASTM E831
RTI Elec	120	°C	UL 746
RTI Imp	120	°C	UL 746
RTI	140	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 4.0E+16	ohms · cm	ASTM D257
Dielectric Strength			ASTM D149
1.60 mm, in Oil	23	kV/mm	ASTM D149
3.20 mm, in Air	16	kV/mm	ASTM D149
3.20 mm, in Oil	16	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
100 Hz	3.30		ASTM D150
1 MHz	3.10		ASTM D150
Dissipation Factor			ASTM D150
100 Hz	2.0E-3		ASTM D150
1 MHz	0.020		ASTM D150
Arc Resistance ¹⁰	PLC 4		ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 1		UL 746
Hot-wire Ignition (HWI)	PLC 3		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	12	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 - 80	%	
Rear Temperature	232 - 249	°C	
Middle Temperature	238 - 254	°C	
Front Temperature	243 - 260	°C	
Nozzle Temperature	238 - 254	°C	
Processing (Melt) Temp	243 - 260	°C	
Mold Temperature	49 - 77	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	50 - 100	rpm	

Vent Depth	0.013 - 0.025	mm
NOTE		
1.	2.3 to 4.6 mm	
2.	0.75 to 2.3 mm	
3.	0.75 to 2.3 mm	
4.	2.3 to 4.6 mm	
5.	Type 1, 50mm/min	
6.	Type 1, 50mm/min	
7.	1.3 mm/min	
8.	1.3 mm/min	
9.	Modified	
10.	Tungsten electrode	

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