LNP™ COLORCOMP™ COMPOUND J1000E

J1000EM

DESCRIPTION

LNP* COLORCOMP* J1000E is a compound based on PES resin. Added features include: Easy Moulding.

TYPICAL PROPERTY VALUES

Revision 20200109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 50 mm/min	91	MPa	ISO 527
Tensile Stress, break, 50 mm/min	65	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	6.8	%	ISO 527
Tensile Modulus, 1 mm/min	2700	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	136	MPa	ISO 178
Flexural Modulus, 2 mm/min	2800	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	5.6E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	5.7E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	197	°C	ISO 75/Af
Relative Temp Index, Elec (1)	180	°C	UL 746B
Relative Temp Index, Mech w/impact (1)	170	°C	UL 746B
Relative Temp Index, Mech w/o impact (1)	180	°C	UL 746B
PHYSICAL			
Mold Shrinkage, flow	0.9	%	SABIC method
Density	1.37	g/cm³	ISO 1183
Water Absorption, 23°C/24hrs	0.9	%	ISO 62-1
ELECTRICAL			
Hot-Wire Ignition (HWI), PLC 3	≥0.81	mm	UL 746A
Hot-Wire Ignition (HWI), PLC 4	≥0.43	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥0.43	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 1	≥0.81	mm	UL 746A
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E45329-101283858	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.81	mm	UL 94
UL Recognized, 94V-2 Flame Class Rating	≥0.43	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	355 – 370	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Front - Zone 3 Temperature	370 – 380	°C	
Middle - Zone 2 Temperature	360 – 370	°C	
Rear - Zone 1 Temperature	345 – 355	°C	
Mold Temperature	140 – 150	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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