+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

LNP™ COLORCOMP™ Compound M1000

Europe-Africa-Middle East: COMMERCIAL

Also known as: LNP™ COLORCOMP™ Compound M1000
Product reorder name: M1000

LNP COLORCOMP M1000 is an unfilled Polypropylene resin.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield, 5 mm/min	1600	MPa	ISO 527
Tensile Stress, yield, 50 mm/min	34	MPa	ISO 527
Tensile Stress, break, 50 mm/min	17	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	41.8	%	ISO 527
Tensile Strain, break, 50 mm/min	42	%	ISO 527
Flexural Stress, yield, 2 mm/min	44	MPa	ISO 178
Flexural Modulus, 2 mm/min	1500	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	77	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	1.1E-04	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.4E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	96	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	59	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow (5)	1.5 - 2	%	SABIC Method
Density	0.91	g/cm³	ISO 1183
Water Absorption, 23°C/24hrs	0.02	%	ISO 62-1

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	215 - 220	°C
Front - Zone 3 Temperature	205 - 215	°C
Middle - Zone 2 Temperature	200 - 210	°C
Rear - Zone 1 Temperature	195 - 205	°C
Mold Temperature	30 - 50	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

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