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

LNP™ COLORCOMP™ Compound M1000S

Americas: COMMERCIAL

Also known as: LNP™ COLORCOMP™ Compound M-1000 HS
Product reorder name: M1000S

LNP COLORCOMP* M1000S is an unfilled Polypropylene resin. Added features of this material include: Heat Stabilized.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	28	MPa	ISO 527
Tensile Stress, break	26	MPa	ISO 527
Tensile Strain, yield	7	%	ISO 527
Tensile Strain, break	40	%	ISO 527
Tensile Modulus, 1 mm/min	2160	MPa	ISO 527
Flexural Stress	40	MPa	ISO 178
Flexural Modulus	1800	MPa	ISO 178
IMPACT			
Izod Impact, notched 80*10*4 +23°C	3	kJ/m²	ISO 180/1A
THERMAL			
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	130	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	94	°C	ISO 75/Af
PHYSICAL			
Density	1.13	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	1.5 - 1.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.5 - 1.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.51 - 1.67	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.51 - 1.67	%	ISO 294
Density	1.12	g/cm³	ISO 1183

(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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