

ColorFast® NYA1000

Acrylonitrile Butadiene Styrene + Nylon

LTL Color Compounders, Inc.

Message:

Nylon/ABS alloy with high ductility and excellent chemical resistance

General Information			
Features	Ductile		
	Good Chemical Resistance		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/3.8 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	41.4	MPa	ASTM D638
Tensile Elongation ² (Break)	200	%	ASTM D638
Flexural Modulus ³	1170	MPa	ASTM D790
Flexural Strength ⁴	59.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	65.6	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Shot Size	40 to 60	%	
Rear Temperature	204 to 238	°C	
Middle Temperature	210 to 232	°C	
Front Temperature	221 to 254	°C	
Nozzle Temperature	216 to 249	°C	
Processing (Melt) Temp	221 to 254	°C	
Mold Temperature	10.0 to 71.1	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.025 to 0.076	mm	

NOTE	
1.	51 mm/min
2.	51 mm/min
3.	51 mm/min
4.	51 mm/min

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