



## ColorFast® NY3-1000

**PRODUCT DESCRIPTION** 6I/6T Copolymer is a partially aromatic polyamide with good heat resistant. A transparent semi-crystalline Nylon for injection molding.

**MATERIAL STATUS** Commercial: Active

**AVAILABILITY** Africa & Middle East, Asia Pacific, Europe, Latin America, North America

**FEATURES** Excellent Colorability

**USES** Closures, Consumer Applications, Engineering Parts, Household Goods, Housings, Industrial Applications, Industrial Parts, Outdoor Applications

**FORMS** Pellets

**PROCESSING METHOD** Injection Molding

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30 to 0.50	%	ASTM D955
Water Absorption (24 hr)	2.0	%	ASTM D570
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Strength <sup>2</sup> (Yield)	100	MPa	ASTM D638
Tensile Elongation <sup>2</sup>			ASTM D638
Yield	5.0	%	
Break	> 50	%	
Flexural Modulus <sup>2</sup>	2830	MPa	ASTM D790
Flexural Strength <sup>2</sup>	96.5	MPa	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (23°C)	75	J/m	ASTM D256
HARDNESS	NOMINAL VALUE	UNIT	TEST METHOD
Rockwell Hardness (R-Scale)	145		ASTM D785
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.35 mm	105	°C	
FLAMMABILITY	NOMINAL VALUE	UNIT	TEST METHOD
Flame Rating (0.8 mm)	V-2		UL 94



<b>INJECTION</b>	<b>NOMINAL VALUE</b>	<b>UNIT</b>
Drying Temperature	80	°C
Drying Time	4.0 to 12	hr
Drying Time, Maximum	12	hr
Suggested Shot Size	50 to 80	%
Rear Temperature	260 to 282	°C
Middle Temperature	271 to 288	°C
Front Temperature	277 to 299	°C
Nozzle Temperature	288 to 310	°C
Processing (Melt) Temp	288 to 310	°C
Mold Temperature	82 to 121	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	60 to 120	rpm
Vent Depth	0.038 to 0.076	mm

**NOTES**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 51 mm/min

