

ColorFast® NY3-1000

Americhem - Polyamide 6I/6T Copolymer

General Information

Product Description

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

General

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		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.18		ASTM D792
Molding Shrinkage - Flow (0.125 in)	3.0E-3 to 5.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	2.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	14500	psi	ASTM D638
Tensile Elongation ² (Yield)	5.0	%	ASTM D638
Tensile Elongation ² (Break)	> 50	%	ASTM D638
Flexural Modulus ²	410000	psi	ASTM D790
Flexural Strength ²	14000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.4	ft·lb/in	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 (264 psi, Unannealed, 0.250 in)	221	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.031 in)	V-2		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	4.0 to 12	hr
Drying Time, Maximum	12	hr
Suggested Shot Size	50 to 80	%
Rear Temperature	500 to 540	°F
Middle Temperature	520 to 550	°F
Front Temperature	530 to 570	°F
Nozzle Temperature	550 to 590	°F
Processing (Melt) Temp	550 to 590	°F
Mold Temperature	180 to 250	°F
Back Pressure	50.0 to 100	psi
Screw Speed	60 to 120	rpm



Vent Depth	1.5E-3 to 3.0E-3 in
------------	---------------------

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

