

ColorFast® NY1

Americhem - Polyamide 6

General Information

Product Description

NY1 is an injection molding grade of Nylon 6 suitable for a wide range of applications.

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	1.13		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.015 to 0.020	in/in	ASTM D955
Water Absorption (24 hr)	1.3	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	11700	psi	ASTM D638
Tensile Elongation ² (Yield)	5.0	%	ASTM D638
Tensile Elongation ² (Break)	70	%	ASTM D638
Flexural Modulus ²	400000	psi	ASTM D790
Flexural Strength ²	12800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.0	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	160	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	2.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Suggested Shot Size	30 to 60	%
Rear Temperature	450 to 540	°F
Middle Temperature	460 to 540	°F
Front Temperature	460 to 540	°F
Nozzle Temperature	460 to 540	°F
Processing (Melt) Temp	490 to 540	°F
Mold Temperature	100 to 180	°F
Back Pressure	50.0 to 100	psi
Screw Speed	60 to 120	rpm
Vent Depth	1.5E-3 to 3.0E-3	in

