

**ColorFast® NY2115**

Americhem - Polyamide 66

**General Information**
**Product Description**

Super tough nylon 6,6 with excellent chemical resistance and ductility

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Excellent Colorability		
Uses	• Closures	• Household Goods	• Industrial Parts
	• Consumer Applications	• Housings	• Outdoor Applications
	• Engineering Parts	• Industrial Applications	
UL File Number	• E178307		
Forms	• Pellets		
Processing Method	• Injection Molding		

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.05		ASTM D792
Melt Mass-Flow Rate (MFR) (275°C/5.0 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.015 to 0.020	in/in	ASTM D955
Water Absorption (24 hr)	1.3	%	ASTM D570
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength <sup>2</sup> (Yield)	7600	psi	ASTM D638
Tensile Strength <sup>2</sup> (Break)	6800	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	18	%	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	70	%	ASTM D638
Flexural Modulus <sup>2</sup>	290000	psi	ASTM D790
Flexural Strength <sup>2</sup>	10500	psi	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (73°F)	16	ft·lb/in	ASTM D256
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Rockwell Hardness (R-Scale)	75		ASTM D785
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	160	°F	ASTM D648
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating			UL 94
0.0030 in		HB	
0.12 in		HB	

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
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	480 to 540	°F
Middle Temperature	490 to 540	°F
Front Temperature	490 to 540	°F



Nozzle Temperature	480 to 530 °F
Processing (Melt) Temp	515 to 560 °F
Mold Temperature	100 to 200 °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

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

<sup>2</sup> 2.0 in/min

