

## NYCOA 2046

### Unextracted Copolyamide Resin.

NYCOA 2046 is a Nylon copolymer developed specially for applications that demand easy flow, exceptional toughness, and flexibility. Its moderately high melt viscosity processes easily on conventional extrusion equipment and yields products with extremely high tenacity and strength.

NYCOA 2046 typical applications include fishing line and other industrial monofilament uses. It is available with custom additive packages: heat stabilizer, UV stabilizer, flame retardant and/or custom colors.

Property	Test Method ASTM	English		SI		
		Unit	Value	Unit	Value	
<b>Physical Properties</b>						
Specific Gravity	D 792	-	1.12	-	1.12	
Water Absorption, 24 hr	D 570	%	2.0	%	2.0	
Relative Viscosity	NYCOA	SAV	4.0	FAV	145	
Water Extractable	NYCOA	%	8 – 10	%	8 – 10	
<b>Mechanical Properties</b>						
Tensile Strength	D 638	psi	8,100	MPa	56	
Ultimate Elongation	D 638	%	300+	%	300+	
Flexural Modulus	D 790	psi	110,000	MPa	759	
Flexural Strength	D 790	psi	5,000	MPa	34	
Notched Izod Impact	D 256	ft.lbs./in.	1.5	J/m	80	
<b>Thermal Properties</b>						
Melting Temperature	D 789	° F	385	° C	196	

All test specimens tested in "dry" state – less than 0.3% moisture.  
Izod Impact – ½" x ¼" bars.

All tensile properties obtained at a testing speed of 2 in./min.

The information contained herein is based upon data believed to be thoroughly reliable. However, due to the many uses to which this material is put, and the different equipment and techniques used, we cannot guarantee results in specific instances. Nor should any statement herein be construed as a recommendation to use our products in the infringement of a patent.