

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	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
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
Mechanical Properties					
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
Thermal Properties					
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.