

NYCOA 2047

FDA Compliant, Specialty Copolyamide Resin.

NYCOA 2047 is a Nylon copolymer developed especially for applications that demand easy processing. Its lower melting point, greater flexibility, and lower crystallinity than standard nylon resins, makes it ideal for a variety of extrusion applications. In addition, the high relative viscosity provides excellent melt strength and toughness after processing.

NYCOA 2047 typical applications include barrier films, tubing, trimmer line, and other industrial monofilaments.

NYCOA 2047 complies with all the requirements of the FDA regulations 21 CFR 177.1500.

Property	Test Method	English		SI	
		Unit	Value	Unit	Value
	ASTM				
Physical Properties					
Specific Gravity	D 792	-	1.12	-	1.12
Water Absorption, 24 hr	D 570	%	1.7	%	1.7
Relative Viscosity	NYCOA	SAV	4.0	FAV	145
Water Extractable	NYCOA	%	0.8	%	0.8
Mechanical Properties					
Tensile Strength	D 638	psi	9,000	MPa	62
Ultimate Elongation	D 638	%	300+	%	300+
Flexural Modulus	D 790	psi	276,000	MPa	1,903
Flexural Strength	D 790	psi	10,300	MPa	71
Notched Izod Impact	D 256	ft.lbs./in.	1.3	J/m	73
Thermal Properties					
Melting Temperature	D 789	° F	390	° C	199
<small>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.</small>					
<small>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.</small>					