

# NYCOA 2277

## Extracted, Nylon Co-Polyamide Resin

NYCOA 2277 is a Nylon copolymer developed specially for applications that demand a high degree of toughness and flexibility. Its moderately high melt viscosity processes easily on conventional extrusion equipment and yields products with extremely high tenacity and strength.

NYCOA 2277 is available with custom additive packages including heat stabilizers, UV stabilizers, or customer colors.

Typical applications include film, sheet, and fishing line.

Property	Test Method	English		SI	
		Unit	Value	Unit	Value
<b>Physical Properties</b>					
Specific Gravity	D 792	-	1.12	-	1.12
Water Absorption, 24 hr	D 570	%	1.6	%	1.6
Relative Viscosity	NYCOA	SAV	4.0	FAV	145
Water Extractable	NYCOA	%	1	%	1
<b>Mechanical Properties</b>					
Tensile Strength	D 638	psi	10,150	MPa	70
Ultimate Elongation	D 638	%	500+	%	500+
Flexural Modulus	D 790	psi	305,000	MPa	2,100
Flexural Strength	D 790	psi	11,900	MPa	82
Notched Izod Impact	D 256	ft.lbs./in.	2.7	J/m	135
<b>Thermal Properties</b>					
Melting Temperature	D 789	°F	370	°C	188

All test specimens tested in "dry" state – less than 0.3% moisture.  
 Izod Impact – 1/2" x 1/4" 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.