

## NYCOA NanoSEAL™ NS-8030

### Nylon 6 Nanocomposite.

NYCOA NanoSEAL™ NS - 8030 is Nylon 6 based Nanocomposite made via in-situ polymerization for optimum nano-clay exfoliation.

NYCOA NanoSEAL™ NS - 8030 can be tailor-made to any specific viscosity range, depending upon the final application. This grade offers a 40% improvement in stiffness, as well as a 100% improvement in HDT vs. neat Nylon 6. In addition, barrier properties to water, oxygen, carbon dioxide, and fuel are improved approximately 50% vs. neat Nylon 6.

Property	Method	English		SI	
		Unit	Value	Unit	Value
<b>Physical Properties</b>					
Specific Gravity	D 792	-	1.13	-	1.13
Water Absorption, 24 hr	D 570	%	N/A	%	N/A
Linear Mold Shrinkage (Parallel)	D 955	%	N/A	%	N/A
Linear Mold Shrinkage (Normal)	D 955	%	N/A	%	N/A
<b>Mechanical Properties</b>					
Tensile Strength	D 638	psi	10,900	MPa	75
Ultimate Elongation	D 638	%	15	%	15
Flexural Modulus	D 790	psi	537,000	MPa	3,700
Flexural Strength	D 790	psi	18,900	MPa	130
Notched Izod Impact	D 256	ft.lbs./in	0.75	J/m	38
<b>Thermal Properties</b>					
Melting Temperature	D 789	°F	428	°C	220
Heat Deflection Temperature (264 psi)	D 648	°F	257	°C	125
<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>					