

NYCOA nanoSEAL™ NS - 8330 UV

High-Strength, High-Impact Nanocomposite

NYCOA nanoSEAL™ NS - 8330 UV is a proprietary clay based Nanocomposite made via in-situ polymerization for optimum nano-clay exfoliation. The grade exhibits a higher degree of stiffness and superior toughness compared to standard impact modified Nylons.

NYCOA nanoSEAL™ NS - 8330 UV has been specifically formulated for extrusion, blow-molding, and injection molding applications. This grade offers a 55% improvement in barrier properties over traditional Super-Tough Nylons. In addition, this product is UV stabilized for prolonged outdoor exposure to sunlight.

Property	Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.05	-	1.05
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
Mechanical Properties					
Tensile Strength, Break	D 638	psi	8,700	MPa	60
Ultimate Elongation	D 638	%	25	%	25
Flexural Modulus	D 790	psi	320,000	MPa	2,207
Flexural Strength	D 790	psi	11,000	MPa	76
Notched Izod Impact	D 256	ft.lbs./in	15 (NB)	J/m	750
Unnotched Izod Impact	D 256	ft.lbs./in	35 (NB)	J/m	1,750
Thermal Properties					
Melting Temperature	D 789	°F	428	°C	220
<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>					