

## NYCOA 5300 HS

### Super Tough, Heat Stabilized Nylon 66 Resin.

**NYCOA 5300 HS** is a heat stabilized, super tough Nylon 66 which offers outstanding toughness, exceptional processability, and a greater service life at elevated temperatures than standard grades of Nylon 66.

**NYCOA 5300 HS** is available in UV stable, custom colors, and impact modified grades. It also has excellent chemical resistance to greases, oils, and other hydrocarbons.

**NYCOA 5300 HS** is found in applications such as chain saw casings, ski bindings, and lawn & garden equipment housings.

Property	Method	English		SI	
		Unit	Value	Unit	Value
<b>Physical Properties</b>					
Specific Gravity	D 792	-	1.08	-	1.08
Water Absorption, 24 hr	D 570	%	0.8	%	0.8
Linear Mold Shrinkage (Parallel)	D 955	%	1.5	%	1.5
Linear Mold Shrinkage (Normal)	D 955	%	1.6	%	1.6
<b>Mechanical Properties</b>					
Hardness, Rockwell (R Scale)	D 785	-	118	-	118
Tensile Strength	D 638	psi	6,962	MPa	48
Ultimate Elongation	D 638	%	75	%	75
Flexural Modulus	D 790	psi	232,000	MPa	1,600
Flexural Strength	D 790	psi	10,100	MPa	70
Notched Izod Impact	D 256	ft.lbs./in.	18	J/m	1000
<b>Thermal Properties</b>					
Melting Temperature	D 789	°F	496	°C	258
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	372	°C	189
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	158	°C	70
<small>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.</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>					