

## NYCOA 5133 HS

### 33% Glass-Fiber Reinforced, Impact Modified, Heat Stabilized Nylon 66 Resin.

**NYCOA 5133 HS** is a 33% glass fiber reinforced, heat stabilized, impact modified, Nylon 66 suitable for injection molding. It offers excellent balance of mechanical, thermal and chemical properties; exceptional toughness, stiffness, and dimensional stability.

**NYCOA 5133 HS** is available in UV stable, custom colors, and impact modified grades. It also has excellent chemical resistance to greases, oils, and other hydrocarbons.

Typical applications include hardware and automotive under the hood components.

Property	Method	English		SI	
		Unit	Value	Unit	Value
<b>Physical Properties</b>					
Specific Gravity	D 792	-	1.35	-	1.35
Water Absorption, 24 hr	D 570	%	0.5	%	0.5
Linear Mold Shrinkage (Parallel)	D 955	%	0.5	%	0.5
Linear Mold Shrinkage (Normal)	D 955	%	0.8	%	0.8
<b>Mechanical Properties</b>					
Hardness, Rockwell (R Scale)	D 785	-	122	-	122
Tensile Strength	D 638	psi	23,931	Mpa	165
Ultimate Elongation	D 638	%	3	%	3
Flexural Modulus	D 790	psi	1,160,000	Mpa	8,000
Flexural Strength	D 790	psi	33,400	Mpa	230
Notched Izod Impact	D 256	ft.lbs./in.	4.0	J/m	200
<b>Thermal Properties</b>					
Melting Temperature	D 789	°F	496	°C	258
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	500	°C	260
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	464	°C	240
<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>					