

## NYCOA 5015 HS

**15% Glass-Fiber Reinforced, Heat Stabilized, Nylon 66 Resin.**

**NYCOA 5015 HS** is a 15% glass fiber reinforced, heat stabilized Nylon 66 resin used for injection molding. The heat stabilizer system is specially formulated for optimum thermal stability.

**NYCOA 5015 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 5015 HS** is suitable for injection molding and can be found in applications in the hardware, and automotive industries.

Property	Method	English		SI	
		Unit	Value	Unit	Value
<b>Physical Properties</b>					
Specific Gravity	D 792	-	1.24	-	1.24
Water Absorption, 24 hr	D 570	%	0.9	%	0.9
Linear Mold Shrinkage (Parallel)	D 955	%	0.6	%	0.6
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	17,400	MPa	120
Ultimate Elongation	D 638	%	4	%	4
Flexural Modulus	D 790	psi	870,000	MPa	6,000
Flexural Strength	D 790	psi	25,500	MPa	176
Notched Izod Impact	D 256	ft.lbs./in.	1.2	J/m	60
<b>Thermal Properties</b>					
Melting Temperature	D 789	°F	500	°C	260
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	480	°C	249
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	450	°C	232
<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>					