

NYCOA 5000 HSL

Heat Stabilized, Lubricated, Nylon 66 Resin.

NYCOA 5000 HSL is a heat stabilized and lubricated Nylon 66 resin for injection molding.

Typical applications include gears, automotive components, fasteners, cable ties, equipment hand guards, and appliance housing.

Property	Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.14	-	1.14
Water Absorption, 24 hr	D 570	%	1.3	%	1.3
Linear Mold Shrinkage (Parallel)	D 955	%	1.4	%	1.4
Linear Mold Shrinkage (Normal)	D 955	%	1.4	%	1.4
Mechanical Properties					
Hardness, Rockwell (R Scale)	D 785	-	120	-	120
Tensile Strength	D 638	psi	12,035	MPa	83
Ultimate Elongation	D 638	%	60	%	60
Flexural Modulus	D 790	psi	413,300	MPa	2,850
Flexural Strength	D 790	psi	17,400	MPa	120
Notched Izod Impact	D 256	ft.lbs./in.	1.0	J/m	53
Thermal Properties					
Melting Temperature	D 789	°F	500	°C	260
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	410	°C	210
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	150	°C	65
<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>					