

NYCOA 5013 HS

13% Glass-Fiber Reinforced, Heat Stabilized, Nylon 66 Resin.

NYCOA 5013 HS is a 13% glass fiber reinforced, heat stabilized Nylon 66 resin used for injection molding.

NYCOA 5013 HS offers better mechanical and thermal properties than most conventional Nylon 66. This grade is available in light stable, flame retardant and custom color formats.

Typical applications include electrical connectors, circuit breaker parts and automotive under the hood applications.

Property	Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific gravity	D 792	-	1.22	-	1.22
Water Absorption, 24 hr	D 570	%	1.3	%	1.3
Linear Mold Shrinkage (Parallel)	D 955	%	0.7	%	0.7
Linear Mold Shrinkage (Normal)	D 955	%	1.2	%	1.2
Mechanical Properties					
Hardness, Rockwell (R Scale)	D 785	-	122	-	122
Tensile Strength	D 638	psi	16,240	MPa	112
Elongation	D 638	%	3	%	3
Tensile Modulus	D 638	psi	783,000	MPa	5,400
Flexural Modulus	D 790	psi	694,550	MPa	4,790
Flexural Strength	D 790	psi	22,910	MPa	158
Notched Izod Impact	D 256	ft.lbs./in.	0.9	J/m	48
Thermal Properties					
Melting Temperature	D 789	°F	496	°C	258
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

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.

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.