

NYCOA 512 HS

Nucleated, Heat Stabilized Nylon 6 Resin.

NYCOA 512 HS is a medium viscosity injection molding and extrusion grade Nylon 6 Resin. It is nucleated for controlled crystallinity, and heat stabilized for a higher continuous use temperature.

NYCOA 512 HS is suitable for injection molding applications such as components for toys, hardware, and the automotive industry. In the extrusion industry, typical applications include tubing.

Property	Method	English		SI	
		ASTM	Unit	Value	Unit
Physical Properties					
Specific gravity	D 792	-	1.13	-	1.13
Water Absorption, 24 hr	D 570	%	1.7	%	1.7
Linear Mold Shrinkage (Parallel)	D 955	%	1.2	%	1.2
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	13,050	MPa	90
Ultimate Elongation	D 638	%	32	%	32
Flexural Modulus	D 790	psi	401,450	MPa	2,770
Flexural Strength	D 790	psi	11,600	MPa	80
Notched Izod Impact	D 256	ft.lbs./in.	0.80	J/m	43.0
Thermal Properties					
Melting Temperature	D 789	°F	430	°C	221
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	396	°C	202
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	167	°C	75
<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 50 mm./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>					