

NYCOA 436

Fast Cycling, NSF Approved Nylon 6 Resin.

NYCOA 436 Nylon is general-purpose low viscosity injection-molding grade Nylon 6 that exhibits excellent melt fluidity, good toughness, stiffness, and strength.

NYCOA 436 Nylon is listed by the National Sanitation Foundation under Standard 61 for use in products that come into contact with food or potable water.

Typical applications include plumbing fittings, electronics parts, toys, and hardware items such as gears, fittings, casters, bearings, clips, fasteners, plugs, caps, and filter bowls.

Property	Method	English		SI	
		Unit	Value	Unit	Value
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	12,500	MPa	86
Ultimate Elongation	D 638	%	50	%	50
Flexural Modulus	D 790	psi	385,000	MPa	2,656
Flexural Strength	D 790	psi	14,500	MPa	99
Notched Izod Impact	D 256	ft.lbs./in.	0.9	J/m	48
Thermal Properties					
Melting Temperature	D 789	°F	430	°C	221
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	365	°C	185
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	155	°C	68
<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>					