

NYCOA 2037

15% Glass fiber Reinforced, Impact Modified, Heat Stabilized Nylon 6 Resin.

NYCOA 2037 is a 15% glass fiber reinforced, impact modified and heat stabilized Nylon 6 resin that features good mechanical properties with improved impact strength and dimensional stability.

NYCOA 2037 has excellent chemical resistance to greases, oils and other hydrocarbons. It is available in light stable grades and custom colors.

Typical applications include power tool housings, safety helmet parts, and weed trimmer heads.

Property	Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific gravity	D 792	-	1.22	-	1.22
Water Absorption, 24 hr	D 570	%	1.4	%	1.4
Linear Mold Shrinkage (Parallel)	D 955	%	0.4	%	0.4
Linear Mold Shrinkage (Normal)	D 955	%	0.8	%	0.8
Mechanical Properties					
Hardness, Rockwell (R Scale)	D 785	-	120	-	120
Tensile Strength	D 638	psi	17,405	MPa	120
Elongation	D 638	%	4	%	4
Flexural Modulus	D 790	psi	732,442	MPa	5,050
Flexural Strength	D 790	psi	21,756	MPa	150
Notched Izod Impact	D 256	ft.lbs./in.	3	J/m	158
Thermal Properties					
Melting Temperature	D 789	°F	430	°C	221
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	428	°C	220
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	397	°C	203

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.