

## NYCOA GR30 VO Black

**30% Glass Fiber Reinforced, Flame Retardant Nylon 6 Resin.**

**NYCOA GR30 VO** is a 30% glass fiber reinforced, flame retardant Nylon 6 resin used for injection molding. This resin complies with ROHS requirements, as it contains a non-halogenated flame retardant package.

**NYCOA GR30 VO** is listed by Underwriters Laboratories as UL 94 V0 at 1.4mm thickness.

Typical applications include speaker baskets, relay housings, bobbins, and electrical connectors.

Property	Method	English		SI	
		Unit	Value	Unit	Value
<b>Physical Properties</b>					
Specific Gravity	D 792	-	1.42	-	1.42
Water Absorption, 24 hr	D 570	%	0.95	%	0.95
Linear Mold Shrinkage (Parallel)	D 955	%	0.3	%	0.3
Linear Mold Shrinkage (Normal)	D 955	%	0.5	%	0.5
<b>Mechanical Properties</b>					
Hardness, Rockwell (R Scale)	D 785	-	120	-	120
Tensile Strength	D 638	psi	21,170	MPa	146
Ultimate Elongation	D 638	%	3.0	%	3.0
Flexural Modulus	D 790	psi	1,326,750	MPa	9,150
Flexural Strength	D 790	psi	29,870	MPa	206
Notched Izod Impact	D 256	ft.lbs./in.	2.1	J/m	105
Unnotched Izod Impact	D 256	ft.lbs./in.	17	J/m	850
<b>Thermal Properties</b>					
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	401	°C	205
<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>					