

NYCOA 2038

6% Glass Fiber Reinforced, Nylon 6 Resin.

NYCOA 2038 is a 6% glass-fiber reinforced Nylon 6 resin that offers increased stiffness and dimensional stability. It is formulated to offer outstanding processability, chemical resistance, and an excellent overall balance of mechanical properties.

NYCOA 2038 is available in UV stable, custom colors, and impact modified grades. In addition, this material has excellent chemical resistance to greases, oils and other hydrocarbons.

NYCOA 2038 is suitable for general-purpose injection molding, and can be found in applications that include gears, hardware items, and weed-trimmer parts.

Property	Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.16	-	1.16
Water Absorption, 24 hr	D 570	%	1.4	%	1.4
Linear Mold Shrinkage (Parallel)	D 955	%	0.8	%	0.8
Linear Mold Shrinkage (Normal)	D 955	%	1.0	%	1.0
Mechanical Properties					
Hardness, Rockwell (R Scale)	D 785	-	120	-	120
Tensile Strength	D 638	psi	14,939	MPa	103
Ultimate Elongation	D 638	%	10.0	%	10.0
Flexural Modulus	D 790	psi	551,144	MPa	3,800
Flexural Strength	D 790	psi	20,305	MPa	140
Notched Izod Impact	D 256	ft.lbs./in.	0.8	J/m	42.1
Thermal Properties					
Melting Temperature	D 789	°F	430	°C	221
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	392	°C	200
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	347	°C	175
<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>					