

## NYCOA 2277 G30I

30% Glass Fiber Reinforced, Impact Modified, Nylon Copolymer

NYCOA 2277 G30I is a 30% glass fiber reinforced, impact modified, Nylon Copolymer resin used for injection molding. This grade features excellent strength and stiffness, dimensional stability, and a lower melting point vs. Nylon 6.

NYCOA 2277 G30I is also available in UV stable grades, as well as custom colors.

Typical applications include sporting goods, power tool housing, and lawn & garden equipment parts.

Property	Method	English		SI	
		Unit	Value	Unit	Value
<b>Physical Properties</b>					
Specific Gravity	D 792	-	1.35	-	1.35
Water Absorption, 24 hr	D 570	%	1.0	%	1.0
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	16,800	MPa	116
Ultimate Elongation	D 638	%	12	%	12
Flexural Modulus	D 790	psi	900,000	MPa	6,200
Flexural Strength	D 790	psi	21,025	MPa	145
Notched Izod Impact, 23°C	D 256	ft.lbs./in.	5.0	J/m	250
Un-notched Izod Impact, 23°C	D 256	ft.lbs./in.	24	J/m	1,200
Notched Izod Impact, -40°C	D 256	ft.lbs./in.	2.5	J/m	125
Un-notched Izod Impact, -40°C	D 256	ft.lbs./in.	24	J/m	1,200
<b>Thermal Properties</b>					
Melting Temperature	D 789	°F	368	°C	187
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	NA	°C	NA
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	NA	°C	NA
<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>					