

NYCOA 5114

14% Glass-Fiber Reinforced, Impact Modified, Nylon 66 Resin.

NYCOA 5114 is a 14% glass fiber reinforced, impact modified, Nylon 66 that offers an excellent balance of mechanical properties. This grade features a higher degree of impact strength vs. traditional glass-filled Nylons.

NYCOA 5114 is suitable for injection molding and can be found in applications in the hardware, and automotive industries.

Property	Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.18	-	1.18
Water Absorption, 24 hr	D 570	%	NA	%	NA
Linear Mold Shrinkage (Parallel)	D 955	%	NA	%	NA
Linear Mold Shrinkage (Normal)	D 955	%	NA	%	NA
Mechanical Properties					
Hardness, Rockwell (R Scale)	D 785	-	122	-	122
Tensile Strength	D 638	psi	14,500	MPa	100
Ultimate Elongation	D 638	%	12	%	12
Flexural Modulus	D 790	psi	522,000	MPa	3600
Flexural Strength	D 790	psi	18,900	MPa	130
Notched Izod Impact	D 256	ft.lbs./in.	2.7	J/m	135
Thermal Properties					
Melting Temperature	D 789	°F	500	°C	260
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	478	°C	248
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	431	°C	222
<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>					