

NYCOA 5300

Super Tough Nylon 66 Resin.

NYCOA 5300 is super tough Nylon 66 resin for injection molding applications.

NYCOA 5300 exhibits excellent toughness, then most Nylon 66 resins, without sacrificing its hardness and stiffness and high temperature resistance. It is available in light stable grades as well as custom colors.

Typical applications include industrial buckets for rough or abrasive products, housings for tools, grips for gas pump handles, fire hose nozzle handles; industrial grade plugs and connectors, and cable assemblies.

Property	Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific gravity	D 792	-	1.06	-	1.06
Water Absorption, 24 hr	D 570	%	1.2	%	1.2
Linear Mold Shrinkage (Parallel)	D 955	%	1.5	%	1.5
Linear Mold Shrinkage (Normal)	D 955	%	1.6	%	1.6
Mechanical Properties					
Hardness, Rockwell (R Scale)	D 785	-	118	-	118
Tensile Strength	D 638	psi	6,962	MPa	48
Elongation	D 638	%	55	%	55
Flexural Modulus	D 790	psi	292,977	MPa	2,020
Flexural Strength	D 790	psi	10,878	MPa	75
Notched Izod Impact	D 256	ft.lbs./in.	18	J/m	1000
Thermal Properties					
Melting Temperature	D 789	°F	496	°C	258
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	372	°C	189
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	149	°C	70

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.