

NYCOA 5025 FR

25% Glass-Fiber Reinforced, Flame Retardant Nylon 66 Resin.

NYCOA 5025 FR is a 25% glass fiber reinforced, flame retardant Nylon 66 resin used for injection molding.

NYCOA 5025 FR is approved by Underwriters Laboratories as a UL 94 VO material at .75mm thickness.

NYCOA 5025 FR is available in UV stable, custom colors, and impact modified grades. It also has excellent chemical resistance to greases, oils, and other hydrocarbons.

Typical applications include electrical coil bobbins, switches, connectors, relay housings, and automotive ashtrays.

Property	Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.50	-	1.50
Water Absorption, 24 hr	D 570	%	0.7	%	0.7
Linear Mold Shrinkage (Parallel)	D 955	%	0.2	%	0.2
Linear Mold Shrinkage (Normal)	D 955	%	0.7	%	0.7
Mechanical Properties					
Hardness, Rockwell (R Scale)	D 785	-	118	-	118
Tensile Strength	D 638	psi	19,600	MPa	135
Ultimate Elongation	D 638	%	4	%	4
Flexural Modulus	D 790	psi	1,160,000	MPa	8,000
Flexural Strength	D 790	psi	32,000	MPa	220
Notched Izod Impact	D 256	ft.lbs./in.	1.8	J/m	95
Thermal Properties					
Melting Temperature	D 789	°F	500	°C	260
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	493	°C	256
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	468	°C	242
<small>All test specimens tested in "dry" state – less than 0.3% moisture. Izod Impact – 1/2" x 1/4" 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>					