

NYCOA 4025 HV

25% Glass Fiber Reinforced, Ultra-High Viscosity Nylon 6 Resin.

NYCOA 4025 HV is an Ultra-high viscosity resin particularly suitable for thermoforming and blow molding. Its high melt viscosity and strength provide ease of processing for tubes, profiles, and sheet.

This material is specifically engineered for applications requiring high stiffness, toughness, and melt strength.

NYCOA 4025 is also available in heat stable, UV stable, custom colors, and impact modified grades.

Suggested applications include thermoformed storage containers and blow molded articles.

Property	Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.32	-	1.32
Water Absorption, 24 hr	D 570	%	1.0	%	1.0
Linear Mold Shrinkage (Parallel)	D 955	%	0.4	%	0.4
Linear Mold Shrinkage (Normal)	D 955	%	0.6	%	0.6
Mechanical Properties					
Hardness, Rockwell (R Scale)	D 785	-	120	-	120
Tensile Strength	D 638	psi	23,200	MPa	160
Ultimate Elongation	D 638	%	10	%	10
Flexural Modulus	D 790	psi	913,500	MPa	6,300
Flexural Strength	D 790	psi	30,000	MPa	207
Notched Izod Impact	D 256	ft.lbs./in	2.5 (PB)	J/m	125 (PB)
Thermal Properties					
Melting Temperature	D 789	°F	428	°C	220
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	424	°C	218
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	399	°C	204
<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>					