

NYCOA 4230 HST

30% Glass-Fiber Reinforced, Heat Stabilized, Translucent Nylon 6 Resin.

NYCOA 4230 HST is a 30% glass fiber reinforced, heat stabilized, translucent Nylon 6 resin for injection molding.

NYCOA 4230 HST is used in applications where high chemical resistance, thermal resistance, and translucency are required. Automotive under the hood applications include reservoirs for brake fluid, transmission fluid, and power steering fluid. It is used for similar applications in the lawn and garden market as well.

Property	Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific gravity	D 792	-	1.33	-	1.33
Water Absorption, 24 hr	D 570	%	0.95	%	0.95
Linear Mold Shrinkage (Parallel)	D 955	%	0.3	%	0.3
Linear Mold Shrinkage (Normal)	D 955	%	0.5	%	0.5
Mechanical Properties					
Hardness, Rockwell (R Scale)	D 785	-	122	-	122
Tensile Strength	D 638	psi	25,810	MPa	178
Elongation	D 638	%	10	%	10
Tensile Modulus	D 638	psi	1,370,250	MPa	9,450
Flexural Modulus	D 790	psi	1,191,900	MPa	8,220
Flexural Strength	D 790	psi	30,450	MPa	210
Notched Izod Impact	D 256	ft.lbs./in.	3.1	J/m	155
Thermal Properties					
Melting Temperature	D 789	°F	432	°C	222
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	428	°C	220
Heat Deflection Temp, 264 psi (1.82 MPa)	D 648	°F	410	°C	210
<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>					