Product Data Sheet

NYCOA 4014 HST

14% Glass Fiber Reinforced, Heat Stabilized, Translucent Nylon 6 Resin.

NYCOA 4014 HST is a 14% glass fiber reinforced, heat stabilized, and translucent Nylon 6 resin used for injection molding. This grade features outstanding stiffness and dimensional stability.

NYCOA 4014 HST is available in UV stable, custom colors, and impact modified grades. It also has excellent chemical resistance to greases, oils, and other hydrocarbons.

NYCOA 4014 HST has been formulated for see through storage tanks for automotive fluids. Typical applications include reservoir bottles for brake oil, transmission fluid, engine coolant, and power steering fluid.

Property	Method	English		SI	
	ASTM	Unit	Value	Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.22	-	1.22
Water Absorption, 24 hr	D 570	%	1.1	%	1.1
Linear Mold Shrinkage (Parallel)	D 955	%	0.5	%	0.5
Linear Mold Shrinkage (Normal)	D 955	%	0.8	%	0.8
Mechanical Properties					
Hardness, Rockwell (R Scale)	D 785	-	120	-	120
Tensile Strength	D 638	psi	17,405	MPa	120
Ultimate Elongation	D 638	%	4.0	%	4.0
Tensile Modulus	D 638	psi	725,190	MPa	5,000
Flexural Modulus	D 790	psi	700,000	MPa	4,830
Flexural Strength	D 790	psi	21,756	MPa	150
Notched Izod Impact	D 256	ft.lbs./in.	1.2	J/m	60
Thermal Properties					
Melting Temperature	D 789	° F	430	° C	221
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	397	° C	203

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.