

NYCOA 534 H

High Viscosity, Heat Stabilized Nylon 6 Resin.

NYCOA 534 H is a high viscosity; heat stabilized, nucleated Nylon 6 resin. The high viscosity and fast set-up time make an excellent material for extrusion of tubing, rods, sheet and film. Because of its fast set-up time, fast extrusion line speeds have been achieved.

NYCOA 534 H is suitable for applications that require continuous exposure to temperatures in excess of 110° C.

Property	Test Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.13	-	1.13
Water Absorption, 24 hr	D 570	%	1.8	%	1.8
Relative Viscosity	NYCOA	SAV	4.0 – 4.4	FAV	145 - 200
Water Extractable	NYCOA	%	0.8	%	0.8
Mechanical Properties					
Hardness, Rockwell (R Scale)	D 785	-	119	-	119
Tensile Strength	D 638	psi	12,000	MPa	83
Ultimate Elongation	D 638	%	130	%	130
Flexural Modulus	D 790	psi	390,000	MPa	2,689
Flexural Strength	D 790	psi	16,500	MPa	114
Notched Izod Impact	D 256	ft.lbs./in	1.1	J/m	59
Thermal Properties					
Melting Temperature	D 789	°F	430	°C	221
Heat Deflection Temp, 66 psi (0.45 Mpa)	D 648	°F	375	°C	191
Heat Deflection Temp, 264 psi (1.82 Mpa)	D 648	°F	150	°C	66

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.