

NYCOA 471 HS

Medium Viscosity, High Strength, Nylon 6 Resin.

NYCOA 471 HS is a medium viscosity Nylon 6 resin developed specifically for Rotational Molding.

NYCOA 471 HS possesses an excellent combination of strength and toughness, as well as excellent thermal properties and chemical resistance.

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	%	1.6	%	1.6
Relative Viscosity	NYCOA	SAV	3.0 – 3.4	FAV	65 – 90
Water Extractable	NYCOA	%	1.5	%	1.5
Melt Flow Index (235 °C; 1kg)	D 1238	-	-	gm/ 10min	2.4 – 2.8
Mechanical Properties					
Tensile Strength	D 638	psi	11,600	MPa	80
Ultimate Elongation	D 638	%	100+	%	100+
Flexural Modulus	D 790	psi	363,000	MPa	2,500
Flexural Strength	D 790	psi	14,500	MPa	100
Notched Izod Impact	D 256	ft.lbs./in.	1.0	J/m	50
Thermal Properties					
Melting Temperature	D 789	°F	428	°C	220
Heat Deflection Temp, 66 psi (0.45 MPa)	D 648	°F	350	°C	117
<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>					