

NYCOA 1485 HS

Specialty Copolyamide TPE

NYCOA 1485 HS is a heat stabilized Nylon copolymer TPE which offers outstanding toughness, flexibility, and strength. It is particularly suitable for extrusion processing.

The chemical composition of NYCOA 1485 HS delivers improved impact performance at ambient or low temperatures, and increased flexibility to meet higher impact performance. The high thermal and chemical resistance, inherent to Nylon 6, is retained.

The chemistry of the resin promotes good adhesion to olefins and other materials. This product is available with custom additive packages: UV stabilizer, flame retardant and custom colors.

Typical applications include convoluted tubing, complex profiles, and pipe extrusion.

Property	Method ASTM	English Unit	English Value	SI Unit	SI Value
Physical Properties					
Specific Gravity	D 792	-	1.08	-	1.08
Water Absorption, 24 hr	D 570	%	2.0	%	2.0
Water Extractable	NYCOA	%	4.0 – 6.0	%	4.0 – 6.0
Melt Flow Index (235 ° C; 1kg)	D 1238	-	-	gm/ 10 min	2 – 4
Mechanical Properties					
Tensile Strength	D 638	psi	7,300	MPa	50
Ultimate Elongation	D 638	%	300	%	300
Flexural Modulus	D 790	psi	87,000	MPa	600
Flexural Strength	D 790	psi	3,200	MPa	22
Notched Izod Impact	D 256	ft.lbs./in.	6.2	J/m	325
Thermal Properties					
Melting Temperature	D 789	° F	400	° C	205

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 50 mm./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.