

NYCOA 2012

Medium Viscosity, Copolyamide TPE.

NYCOA 2012 is a flexible Nylon copolymer TPE particularly suitable for extrusion and injection molding applications. It has a moderately high melt viscosity, excellent processability and yields extremely tough and resilient finished articles.

NYCOA 2012 is recommended for applications that demand easy flow, exceptional toughness, and flexibility with low moisture absorption. Its melt viscosity and strength provide ease of processing for tubing, profile, and molded articles. The high thermal and chemical resistance, inherent to Nylon 6, is retained.

NYCOA 2012 possesses excellent impact resistance and flexibility, without the use of plasticizer or other exuding additives. It is available with custom additive packages: heat stabilizer, UV stabilizer, flame retardant and/or customer colors.

Property	Test Method ASTM	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.10	-	1.10
Water Absorption, 24 hr	D 570	%	1.0	%	1.0
Water Absorption, Saturation	D 570	%	5.5	%	5.5
Water Extractable	NYCOA	%	0.8	%	0.8
Mechanical Properties					
Tensile Strength	D 638	psi	8,400	MPa	58
Ultimate Elongation	D 638	%	300+	%	300+
Flexural Modulus	D 790	psi	200,000	MPa	1,380
Flexural Strength	D 790	psi	7,100	MPa	49
Notched Izod Impact	D 256	ft.lbs./in.	2.13	J/m	113
Thermal Properties					
Melting Temperature	D 789	° F	401	° 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 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.