

NYCOA 2090 HS

Specialty Copolyamide TPE

NYCOA 2090 HS is a medium viscosity Nylon copolymer TPE particularly suitable for extrusion applications. This material offers an outstanding balance of toughness, flexibility, and strength, with improved flame retardancy. The high thermal and chemical resistance, inherent to Nylon 6, is retained.

NYCOA 2090 HS provides high melt viscosity and melt strength and hence outstanding processability for tubing, profile, sheet, and monofilament.

This product is available with custom additive packages: UV stabilizer, and custom colors.

Property	Method ASTM	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.16	-	1.16
Water Absorption, 24 hr	D 570	%	1.7	%	1.7
Linear Mold Shrinkage (Parallel)	D 955	%	1.2	%	1.2
Linear Mold Shrinkage (Normal)	D 955	%	1.4	%	1.4
Mechanical Properties					
Tensile Strength	D 638	psi	7,200	MPa	50
Ultimate Elongation	D 638	%	400	%	400
Flexural Modulus	D 790	psi	85,000	MPa	586
Flexural Strength	D 790	psi	3,400	MPa	23
Notched Izod Impact	D 256	ft.lbs./in.	1.6	J/m	80
Thermal Properties					
Melting Temperature	D 789	° F	400	° C	204

All test specimens tested in "dry" state - less than 0.3% moisture.
Izod Impact - 1/2" x 1/4" 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.