

NYCOA 1838

Specialty Copolyamide TPE

NYCOA 1838 is a flexible Nylon copolymer TPE suitable for both extrusion processing and injection molding. The resin offers excellent toughness, flexibility, and high impact strength combined with easy processability.

NYCOA 1838 is recommended for applications that require good toughness and durability.

Typical applications include soft-touch handles, bowling pin bases, sporting goods, and flexible fasteners.

Property	Method ASTM	English Unit	Value	SI Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.08	-	1.08
Water Absorption, 24 hr	D 570	%	1.2	%	1.2
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	8,050	MPa	55.5
Ultimate Elongation	D 638	%	400+	%	400+
Flexural Modulus	D 790	psi	55,840	MPa	385
Flexural Strength	D 790	psi	2,901	MPa	20
Notched Izod Impact	D 256	ft.lbs./in.	6.4	J/m	337
Thermal Properties					
Melting Temperature	D 789	° F	408	° C	209

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 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.