

NYCOA 2137

Transparent Nylon Copolymer.

NYCOA 2137 is low viscosity Nylon copolymer resin that exhibits excellent transparency. The resin was developed especially for applications requiring transparency in thickness up to 5 mm, while retaining the properties and chemical resistance inherent to nylon 6.

NYCOA 2137 has been specifically designed to offer easy processability. It can be processed on conventional injection equipment designed to process standard grades of nylon.

NYCOA 2137 is available with custom additive packages: heat stabilizer and/or UV stabilizer.

Typical injection molding applications include sight glasses, chemical splash goggles, fashion eyeglass frame, high-voltage switch casings, filter housings, pump casings, flow meters, liquid-level indicators, and filter bowls for gas.

Property	Method	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.11	-	1.11
Water Absorption, 24 hr	D 570	%	1.7	%	1.7
Linear Mold Shrinkage (Parallel)	D 955	%	1.0	%	1.0
Linear Mold Shrinkage (Normal)	D 955	%	1.2	%	1.2
Mechanical Properties					
Tensile Strength	D 638	psi	10,875	MPa	75
Ultimate Elongation	D 638	%	50	%	50
Flexural Modulus	D 790	psi	315,000	MPa	2,170
Flexural Strength	D 790	psi	12,300	MPa	85
Notched Izod Impact	D 256	ft.lbs./in.	1.3	J/m	70
Thermal Properties					
Melting Temperature	D 789	°F	390	°C	199
<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>					