

NYCOA 2245

Specialty Copolyamide TPE

NYCOA 2245 is a highly flexible Nylon copolymer TPE developed for both injection molding and extrusion applications. The chemical composition of NYCOA 2245 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, without the problem of migration associated with the use of plasticizers. In addition, its high melt viscosity and melt strength provides outstanding processability for tubing, profile, sheet, and monofilament.

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

Property	Method ASTM	English		SI	
		Unit	Value	Unit	Value
Physical Properties					
Specific Gravity	D 792	-	1.01	-	1.01
Water Absorption, 24 hr	D 570	%	1.1	%	1.1
Linear Mold Shrinkage (Parallel)	D 955	%	1.0	%	1.0
Linear Mold Shrinkage (Normal)	D 955	%	1.2	%	1.2
Mechanical Properties					
Shore Durometer	D 2240	D	63	D	63
Tensile Strength	D 638	psi	6,100	MPa	42
Ultimate Elongation	D 638	%	400	%	400
Flexural Modulus	D 790	psi	65,000	MPa	448
Flexural Strength	D 790	psi	2,900	MPa	20
Notched Izod Impact	D 256	ft.lbs./in.	14	J/m	680
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 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.