

NYCOA Polyamide 2037

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 2037 is a 15% glass fiber reinforced, impact modified and heat stabilized Nylon 6 resin that features good mechanical properties with improved impact strength and dimensional stability.

NYCOA 2037 has excellent chemical resistance to greases, oils and other hydrocarbons. It is available in light stable grades and custom colors.

Typical applications include power tool housings, safety helmet parts, and weed trimmer heads.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Additive	Impact modifier heat stabilizer		
Features	Good dimensional stability Impact modification Impact resistance, good Good chemical resistance Hydrocarbon resistance Oil resistance Grease resistance Thermal Stability		
Uses	Safety helmet Shell		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.40	%	ASTM D955
Transverse flow	0.80	%	ASTM D955
Water Absorption (24 hr)	1.4	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	120	MPa	ASTM D638
Tensile Elongation ² (Break)	4.0	%	ASTM D638
Flexural Modulus ³	5050	MPa	ASTM D790
Flexural Strength ⁴	150	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (6.35 mm)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	220	°C	ASTM D648
1.8 MPa, not annealed	203	°C	ASTM D648
Melting Temperature	221	°C	DSC
Additional Information			
The value listed as Melting Point DSC, was tested in accordance with ASTM D789.			
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	51 mm/min		
4.	51 mm/min		

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