

# NYCOA NanoSEAL™ NS-8030

Polyamide 6

Nycoa (Nylon Corporation of America)

## Message:

NYCOA NanoSEAL™ NS - 8030 is Nylon 6 based Nanocomposite made via in-situ polymerization for optimum nano-clay exfoliation.

NYCOA NanoSEAL™ NS - 8030 can be tailor-made to any specific viscosity range, depending upon the final application. This grade offers a 40% improvement in stiffness, as well as a 100% improvement in HDT vs. neat Nylon 6. In addition, barrier properties to water, oxygen, carbon dioxide, and fuel are improved approximately 50% vs. neat Nylon 6.

General Information			
Filler / Reinforcement	Clay filler		
Features	Good dimensional stability		
	Moisture proof		
	Rigid, good		
	Good chemical resistance		
	Fuel resistance		
	Barrier resin		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	75.2	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	15	%	ASTM D638
Flexural Modulus <sup>3</sup>	3700	MPa	ASTM D790
Flexural Strength <sup>4</sup>	130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	125	°C	ASTM D648
Melting Temperature	220	°C	DSC
Additional Information			
The value listed as Melting Point DSC, was tested in accordance with ASTM D789.			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		

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