

NYCOA NanoSEAL™ NS-80-100

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA nanoSEAL™ NS - 80-100 is Nylon 6 based Nanocomposite with 10% clay loading made via in-situ polymerization for optimum nano-clay exfoliation.

NYCOA nanoSEAL™ NS - 80-100 can be tailor-made to any specific viscosity range, depending upon the final application. This grade offers a 100% improvement in stiffness vs. neat Nylon 6, and is comparable in stiffness to a 20% glass-filled Nylon. In addition, barrier properties to water, oxygen, carbon dioxide, and fuel are improved approximately 80% vs. neat Nylon 6.

General Information			
Filler / Reinforcement	Clay filler, 10% filler by weight		
Features	Moisture proof		
	Rigidity, high		
	Good chemical resistance		
	Fuel resistance		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	51.0	MPa	ASTM D638
Tensile Elongation ² (Break)	2.0	%	ASTM D638
Flexural Modulus ³	5520	MPa	ASTM D790
Flexural Strength ⁴	140	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	27	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	155	°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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