

NYCOA NanoSEAL™ NS-8330 UV

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA nanoSEAL™ NS - 8330 UV is a proprietary clay based Nanocomposite made via in-situ polymerization for optimum nano-clay exfoliation. The grade exhibits a higher degree of stiffness and superior toughness compared to standard impact modified Nylons. NYCOA nanoSEAL™ NS - 8330 UV has been specifically formulated for extrusion, blow-molding, and injection molding applications. This grade offers a 55% improvement in barrier properties over traditional Super-Tough Nylons. In addition, this product is UV stabilized for prolonged outdoor exposure to sunlight.

General Information			
Filler / Reinforcement	Clay filler		
Additive	UV stabilizer		
Features	Rigidity, high		
	Impact resistance, high		
	Good UV resistance		
	Good toughness		
	Barrier resin		
Forms	Particle		
Processing Method	Blow molding		
	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	60.0	MPa	ASTM D638
Tensile Elongation ¹ (Break)	25	%	ASTM D638
Flexural Modulus ²	2210	MPa	ASTM D790
Flexural Strength ³	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
No fracture			
Notched Izod Impact (6.35 mm)	800 J/m		ASTM D256
No fracture			
Unnotched Izod Impact (6.35 mm)	1900 J/m		ASTM D256
Thermal	Nominal Value	Unit	Test Method

Melting Temperature	220	°C	DSC
Additional Information			
The value listed as Melting Point DSC, was tested in accordance with ASTM D789.			
Injection	Nominal Value	Unit	
Drying Temperature	71.1 - 82.2	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	238 - 249	°C	
Middle Temperature	243 - 260	°C	
Front Temperature	249 - 266	°C	
Nozzle Temperature	249 - 266	°C	
Processing (Melt) Temp	249 - 266	°C	
Mold Temperature	65.6 - 76.7	°C	
Screw L/D Ratio	16.0:1.0		
Screw Compression Ratio	3.0:1.0		
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		

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