# NYCOA Polyamide 512 HS

#### Polyamide 6

### Nycoa (Nylon Corporation of America)

#### Message:

NYCOA 512 HS is a medium viscosity injection molding and extrusion grade Nylon 6 Resin. It is nucleated for controlled crystallinity, and heat stabilized for a higher continuous use temperature.

NYCOA 512 HS is suitable for injection molding applications such as components for toys, hardware, and the automotive industry. In the extrusion industry, typical applications include tubing.

General Information			
Additive	Nucleating agent		
	heat stabilizer		
Features	Nucleated		
	Thermal Stability		
	Medium viscosity		
Uses	Pipe fittings Application in Automobile Field		
	Toys		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Constitute Crowity			
Specific Gravity	1.13	g/cm³	ASTM D792
Specific Gravity Molding Shrinkage	1.13	g/cm³	ASTM D792 ASTM D955
-	1.13	g/cm³ %	
Molding Shrinkage			ASTM D955
Molding Shrinkage Flow	1.2	%	ASTM D955 ASTM D955
Molding Shrinkage Flow Transverse flow	1.2 1.4	%	ASTM D955 ASTM D955 ASTM D955
Molding Shrinkage Flow Transverse flow Water Absorption (24 hr)	1.2 1.4 1.7	% % %	ASTM D955 ASTM D955 ASTM D955 ASTM D570
Molding Shrinkage Flow Transverse flow Water Absorption (24 hr) Hardness	1.2 1.4 1.7 Nominal Value	% % %	ASTM D955 ASTM D955 ASTM D955 ASTM D570 Test Method
Molding Shrinkage Flow Transverse flow Water Absorption (24 hr) Hardness Rockwell Hardness (R-Scale)	1.2 1.4 1.7 Nominal Value 120	% % % Unit	ASTM D955 ASTM D955 ASTM D955 ASTM D570 Test Method ASTM D785
Molding Shrinkage Flow Transverse flow Water Absorption (24 hr) Hardness Rockwell Hardness (R-Scale) Mechanical	1.21.41.7Nominal Value120Nominal Value	% % % Unit Unit	ASTM D955 ASTM D955 ASTM D955 ASTM D570 Test Method ASTM D785 Test Method
Molding Shrinkage Flow Transverse flow Water Absorption (24 hr) Hardness Rockwell Hardness (R-Scale) Mechanical Tensile Strength <sup>1</sup>	1.2   1.4   1.7   Nominal Value   120   Nominal Value   90.0	% % % Unit Unit MPa	ASTM D955 ASTM D955 ASTM D955 ASTM D570 Test Method ASTM D785 Test Method ASTM D638
Molding Shrinkage Flow Transverse flow Water Absorption (24 hr) Hardness Rockwell Hardness (R-Scale) Mechanical Tensile Strength <sup>1</sup> Tensile Elongation <sup>2</sup> (Break)	1.2   1.4   1.7   Nominal Value   120   Nominal Value   90.0   32	% % % Unit Unit MPa %	ASTM D955 ASTM D955 ASTM D955 ASTM D570 Test Method ASTM D785 Test Method ASTM D638 ASTM D638
Molding Shrinkage Flow Transverse flow Water Absorption (24 hr) Hardness Rockwell Hardness (R-Scale) Mechanical Tensile Strength <sup>1</sup> Tensile Elongation <sup>2</sup> (Break) Flexural Modulus <sup>3</sup>	1.2   1.4   1.7   Nominal Value   120   Nominal Value   90.0   32   2770	% % % Unit Unit MPa % MPa	ASTM D955 ASTM D955 ASTM D955 ASTM D570 Test Method ASTM D785 Test Method ASTM D638 ASTM D638 ASTM D790
Molding Shrinkage Flow Transverse flow Water Absorption (24 hr) Hardness Rockwell Hardness (R-Scale) Mechanical Tensile Strength <sup>1</sup> Tensile Elongation <sup>2</sup> (Break) Flexural Modulus <sup>3</sup> Flexural Strength <sup>4</sup>	1.2   1.4   1.7   Nominal Value   120   Nominal Value   90.0   32   2770   80.0	% % % Unit Unit MPa % MPa MPa	ASTM D955 ASTM D955 ASTM D955 ASTM D570 Test Method ASTM D785 Test Method ASTM D638 ASTM D638 ASTM D790 ASTM D790

Deflection Temperature Under Load			ASTM D648		
0.45 MPa, not annealed	202	°C	ASTM D648		
1.8 MPa, not annealed	75.0	°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.	50 mm/min				
2.	50 mm/min				
3.	50 mm/min				
4.	50 mm/min				

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