NYCOA Polyamide 436

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 436 Nylon is general-purpose low viscosity injection-molding grade Nylon 6 that exhibits excellent melt fluidity, good toughness, stiffness, and strength.

NYCOA 436 Nylon is listed by the National Sanitation Foundation under Standard 61 for use in products that come into contact with food or potable water.

Typical applications include plumbing fittings, electronics parts, toys, and hardware items such as gears, fittings, casters, bearings, clips, fasteners, plugs, caps, and filter bowls.

General Information					
UL YellowCard	E86478-252065				
Features	Low viscosity				
	Rigid, good				
	Fast molding cycle				
	Good liquidity				
	Good strength				
	Good toughness				
	Compliance of Food Exposure				
Uses	Gear				
	Electrical components				
	Pipe components				
	Fasteners				
	Accessories				
	Toys				
	Bearing				
Agency Ratings	NSF 61				
Forms	Particle				
Processing Method	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.13	g/cm³	ASTM D792		
Molding Shrinkage			ASTM D955		
Flow	1.2	%	ASTM D955		
Transverse flow	1.4	%	ASTM D955		
Water Absorption (24 hr)	1.7	%	ASTM D570		
Hardness	Nominal Value	Unit	Test Method		
Rockwell Hardness (R-Scale)	120		ASTM D785		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength ¹	86.2	MPa	ASTM D638		

Tensile Elongation ² (Break)	50	%	ASTM D638
Flexural Modulus ³	2650	MPa	ASTM D790
Flexural Strength ⁴	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	185	°C	ASTM D648
1.8 MPa, not annealed	68.3	°C	ASTM D648
Melting Temperature	221	°C	DSC
Additional Information			
The value listed as Melting Point DSC	, was tested in accordance with AST	M D789.	
Injection	Nominal Value	Unit	
Drying Temperature	71.1 - 82.2	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	221 - 241	°C	
Middle Temperature	235 - 252	°C	
Front Temperature	246 - 260	°C	
Nozzle Temperature	254 - 266	°C	
Processing (Melt) Temp	249 - 266	°C	
Mold Temperature	76.7 - 87.8	°C	
Injection Rate	Fast		
Back Pressure	0.138 - 0.517	MPa	
Cushion	1.59 - 6.35	mm	
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		
4.	50 mm/min		

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