

# NYCOA Polyamide 5400

Polyamide 66

Nycoa (Nylon Corporation of America)

Message:

NYCOA 5400 is an impact modified Nylon 66 resin that offers outstanding toughness, exceptional processability and meets the requirements of FDA 21 CFR 177.1500.

NYCOA 5400 is found in applications such as appliance housings, and kitchen utensils.

This grade of nylon is available in light stable grades as well as customer colors.

General Information			
Additive	Impact modifier		
Features	Impact modification		
	Workability, good		
	Good toughness		
Uses	Kitchen utensils		
	Application in Automobile Field		
	Shell		
Agency Ratings	FDA 21 CFR 177.1500		
Appearance	Available colors		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.5	%	ASTM D955
Transverse flow	1.6	%	ASTM D955
Water Absorption (24 hr)	0.80	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	47.6	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	75	%	ASTM D638
Flexural Modulus <sup>3</sup>	1600	MPa	ASTM D790
Flexural Strength <sup>4</sup>	69.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	960	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	189	°C	ASTM D648
1.8 MPa, not annealed	70.0	°C	ASTM D648

Melting Temperature	258	°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	249 - 266	°C	
Middle Temperature	266 - 277	°C	
Front Temperature	277 - 288	°C	
Nozzle Temperature	282 - 288	°C	
Processing (Melt) Temp	277 - 293	°C	
Mold Temperature	76.7 - 87.8	°C	
Injection Rate	Fast		
Back Pressure	0.138 - 0.345	MPa	
Cushion	1.59 - 6.35	mm	
Screw L/D Ratio	16.0:1.0		
Screw Compression Ratio	3.0:1.0		
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	51 mm/min		
4.	51 mm/min		

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#### Recommended distributors for this material

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