

# NYCOA Polyamide 2237

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 2237 is Nylon copolymer resin that exhibits excellent transparency and good barrier properties. The resin was developed especially for applications requiring transparency in thickness up to 5 mm, while retaining the properties and chemical resistance.

NYCOA 2237 has been specifically designed to offer easy processability. It can be processed on conventional extrusion and injection equipment designed to process standard grades of nylon.

NYCOA 2237 is available with custom additive packages: heat stabilizer and/or UV stabilizer.

Typical injection molding applications include sight glasses, chemical splash goggles, fashion eyeglass frame, high-voltage switch casings, filter housings, pump casings, flow meters, liquid-level indicators, and filter bowls for gas.

Typical extrusion applications include high-end transparent fishing lines, tubing, transparent sheets, and decorative films for sports and automotive applications.

General Information			
Features	Copolymer		
	Workability, good		
	Good chemical resistance		
	Definition, high		
	Barrier resin		
Uses	Safety equipment		
	Films		
	monofilament		
	Electrical housing		
	Pipe fittings		
	Frame		
	Sheet		
	Application in Automobile Field		
	Sporting goods		
	Shell		
	Glasses		
	Fishery application		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.0	%	ASTM D955

Transverse flow	1.2	%	ASTM D955
Water Absorption (24 hr)	1.7	%	ASTM D570
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Durometer Hardness (Shore D)	60		ASTM D2240
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength <sup>1</sup>	75.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	100	%	ASTM D638
Flexural Modulus <sup>3</sup>	2200	MPa	ASTM D790
Flexural Strength <sup>4</sup>	90.0	MPa	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (6.35 mm)	69	J/m	ASTM D256
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	
Melting Temperature	199	°C	
<b>Additional Information</b>			
The value listed as Melting Point DSC, was tested in accordance with ASTM D789.			
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Drying Temperature	71.1	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	204 - 216	°C	
Middle Temperature	216 - 227	°C	
Front Temperature	221 - 232	°C	
Nozzle Temperature	221 - 238	°C	
Processing (Melt) Temp	216 - 232	°C	
Mold Temperature	4.44 - 10.0	°C	
Injection Rate	Fast		
Back Pressure	0.138 - 0.345	MPa	
Cushion	1.59 - 6.35	mm	
Screw L/D Ratio	18.0:1.0		
Screw Compression Ratio	2.5:1.0		
<b>NOTE</b>			
1.	51 mm/min		
2.	51 mm/min		
3.	51 mm/min		
4.	51 mm/min		

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