# 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 resistanc

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.

Features    Copolymer   Workability, good   Good chemical resistance   Definition, high   Barrier resin   Films   monofilament   Electrical housing   Pipe fittings   Frame   Sheet   Application in Automobile Field   Sporting goods   Sporting goods   Shell   Glasses   Fishery application   Sieses   Fishery application   Forms   Particle   Processing Method   Pigettings   Estrusion   Jestrusion   Jestrusion	General Information	
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	Features	Copolymer
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 Processing Method  Extrusion		Workability, good
Uses Safety equipment Films monofilament Electrical housing Pipe fittings Frame Sheet Application in Automobile Field Sporting goods Shell Glasses Fishery application  Appearance  Appearance Proms Particle Processing Method  Extrusion		Good chemical resistance
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 Processing Method Extrusion		Definition, high
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  Estrusion		Barrier resin
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  Estrusion		
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Electrical housing Pipe fittings Frame Sheet Application in Automobile Field Sporting goods Shell Glasses Fishery application  Appearance Clear/transparent Forms Processing Method Extrusion		Films
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Sporting goods Shell Glasses Fishery application  Appearance Clear/transparent  Forms Particle  Extrusion		Sheet
Shell Glasses Fishery application  Appearance Clear/transparent  Forms Processing Method  Extrusion		Application in Automobile Field
Glasses Fishery application  Appearance Clear/transparent Forms Particle  Extrusion		Sporting goods
Fishery application  Appearance Clear/transparent  Forms Particle  Processing Method Extrusion		Shell
Appearance Clear/transparent Forms Particle Processing Method Extrusion		Glasses
Forms Particle Processing Method Extrusion		Fishery application
Forms Particle Processing Method Extrusion		
Processing Method Extrusion	Appearance	Clear/transparent
	Forms	Particle
Injection molding	Processing Method	Extrusion
		Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm³	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
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
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	МРа	ASTM D790
Flexural Strength <sup>4</sup>	90.0	МРа	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	
Melting Temperature	199	°C	
Additional Information			
The value listed as Melting Point DSC, v	was tested in accordance with AST	M D789.	
Injection	Nominal Value	Unit	
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		
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	51 mm/min		

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## Recommended distributors for this material

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51 mm/min

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4.

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