

NYCOA Polyamide 2137

Polyamide Copolymer

Nycoa (Nylon Corporation of America)

Message:

NYCOA 2137 is low viscosity Nylon copolymer resin that exhibits excellent transparency. The resin was developed especially for applications requiring transparency in thickness up to 5 mm, while retaining the properties and chemical resistance inherent to nylon 6.

NYCOA 2137 has been specifically designed to offer easy processability. It can be processed on conventional injection equipment designed to process standard grades of nylon.

NYCOA 2137 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.

General Information			
Features	Low viscosity		
	Copolymer		
	Workability, good		
	Good chemical resistance		
	Definition, high		
Uses	Safety equipment		
	Frame		
	Filter material		
	Shell		
	Glasses		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	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
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	75.0	MPa	ASTM D638
Tensile Elongation ² (Break)	50	%	ASTM D638
Flexural Modulus ³	2170	MPa	ASTM D790
Flexural Strength ⁴	84.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Melting Temperature	199	°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	°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.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		

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