

NYCOA Polyamide 1838

Polyamide + TPE

Nycoa (Nylon Corporation of America)

Message:

NYCOA 1838 is a flexible Nylon copolymer TPE suitable for both extrusion processing and injection molding. The resin offers excellent toughness, flexibility, and high impact strength combined with easy processability.

NYCOA 1838 is recommended for applications that require good toughness and durability.

Typical applications include soft-touch handles, bowling pin bases, sporting goods, and flexible fasteners.

General Information			
Features	Copolymer		
	Impact resistance, high		
	Workability, good		
	Good flexibility		
	Durability		
	Good toughness		
Uses	Handle		
	Fasteners		
	Sporting goods		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.2	%	ASTM D955
Transverse flow	1.4	%	ASTM D955
Water Absorption (24 hr)	1.2	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	55.5	MPa	ASTM D638
Tensile Elongation ² (Break)	400	%	ASTM D638
Flexural Modulus ³	385	MPa	ASTM D790
Flexural Strength ⁴	20.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	340	J/m	ASTM D256
Thermal	Nominal Value	Unit	
Melting Temperature	209	°C	
Additional Information			

The value listed as Melting Point was tested in accordance with ASTM D789.Tensile Elongation at Break, ASTM D638: 400+%

Injection	Nominal Value	Unit
Drying Temperature	71.1	°C
Drying Time	4.0 - 6.0	hr
Rear Temperature	216 - 227	°C
Middle Temperature	221 - 238	°C
Front Temperature	232 - 249	°C
Nozzle Temperature	243 - 260	°C
Processing (Melt) Temp	243 - 254	°C
Mold Temperature	21.1 - 48.9	°C
Injection Rate	Moderate-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	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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