

NYCOA Polyamide 2038

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 2038 is a 6% glass-fiber reinforced Nylon 6 resin that offers increased stiffness and dimensional stability. It is formulated to offer outstanding processability, chemical resistance, and an excellent overall balance of mechanical properties.

NYCOA 2038 is available in UV stable, custom colors, and impact modified grades. In addition, this material has excellent chemical resistance to greases, oils and other hydrocarbons.

NYCOA 2038 is suitable for general-purpose injection molding, and can be found in applications that include gears, hardware items, and weed-trimmer parts.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 6.0% filler by weight		
Features	Good dimensional stability		
	Rigid, good		
	Workability, good		
	Good chemical resistance		
	Hydrocarbon resistance		
	Oil resistance		
	Grease resistance		
	General		
Uses	Lawn and Garden Equipment		
	Gear		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.80	%	ASTM D955
Transverse flow	1.0	%	ASTM D955
Water Absorption (24 hr)	1.4	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	103	MPa	ASTM D638
Tensile Elongation ² (Break)	10	%	ASTM D638
Flexural Modulus ³	3800	MPa	ASTM D790
Flexural Strength ⁴	140	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	43	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	200	°C	ASTM D648
1.8 MPa, not annealed	175	°C	ASTM D648
Melting Temperature	221	°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	232 - 271	°C
Middle Temperature	243 - 282	°C
Front Temperature	254 - 291	°C
Nozzle Temperature	252 - 291	°C
Processing (Melt) Temp	254 - 291	°C
Mold Temperature	76.7 - 87.8	°C
Injection Rate	Fast	
Back Pressure	0.138 - 0.517	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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

