

NYCOA Polyamide 5300

Polyamide 66

Nycoa (Nylon Corporation of America)

Message:

NYCOA 5300 is super tough Nylon 66 resin for injection molding applications.

NYCOA 5300 exhibits excellent toughness, then most Nylon 66 resins, without sacrificing its hardness and stiffness and high temperature resistance. It is available in light stable grades as well as custom colors.

Typical applications include industrial buckets for rough or abrasive products, housings for tools, grips for gas pump handles, fire hose nozzle handles; industrial grade plugs and connectors, and cable assemblies.

General Information			
Features	Ultra high toughness		
	Rigid, good		
	Heat resistance, high		
	High hardness		
Uses	Handle		
	Plug		
	Connector		
	Barrel		
	Shell		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.5	%	ASTM D955
Transverse flow	1.6	%	ASTM D955
Water Absorption (24 hr)	1.2	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	48.0	MPa	ASTM D638
Tensile Elongation ² (Break)	55	%	ASTM D638
Flexural Modulus ³	2020	MPa	ASTM D790
Flexural Strength ⁴	75.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	960	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	189	°C	ASTM D648
1.8 MPa, not annealed	65.0	°C	ASTM D648
Melting Temperature	258	°C	DSC

Additional Information

The value listed as Melting Point DSC, was tested in accordance with ASTM D789.

NOTE

- | | |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 50 mm/min |
| 4. | 50 mm/min |

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