

NYCOA Polyamide 5000 HSL

Polyamide 66

Nycoa (Nylon Corporation of America)

Message:

NYCOA 5000 HSL is a heat stabilized and lubricated Nylon 66 resin for injection molding.
Typical applications include gears, automotive components, fasteners, cable ties, equipment hand guards, and appliance housing.

General Information			
Additive	heat stabilizer		
	Lubricant		
Features	Thermal Stability		
	Lubrication		
Uses	Gear		
	Guardrail		
	Home appliance components		
	Fasteners		
	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.4	%	ASTM D955
Transverse flow	1.4	%	ASTM D955
Water Absorption (24 hr)	1.3	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	83.0	MPa	ASTM D638
Tensile Elongation ² (Break)	60	%	ASTM D638
Flexural Modulus ³	2850	MPa	ASTM D790
Flexural Strength ⁴	120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648

1.8 MPa, not annealed	65.6	°C	ASTM D648
Melting Temperature	260	°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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