

NYCOA Polyamide 5300 HS

Polyamide 66

Nycoa (Nylon Corporation of America)

Message:

NYCOA 5300 HS is a heat stabilized, super tough Nylon 66 which offers outstanding toughness, exceptional processability, and a greater service life at elevated temperatures than standard grades of Nylon 66.

NYCOA 5300 HS is available in UV stable, custom colors, and impact modified grades. It also has excellent chemical resistance to greases, oils, and other hydrocarbons.

NYCOA 5300 HS is found in applications such as chain saw casings, ski bindings, and lawn & garden equipment housings.

General Information			
Additive	heat stabilizer		
Features	Ultra high toughness		
	Workability, good		
	Good chemical resistance		
	Hydrocarbon resistance		
	Oil resistance		
	Grease resistance		
	Thermal Stability		
Uses	Lawn and Garden Equipment		
	Sporting goods		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.5	%	ASTM D955
Transverse flow	1.6	%	ASTM D955
Water Absorption (24 hr)	0.80	%	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)	75	%	ASTM D638
Flexural Modulus ³	1600	MPa	ASTM D790
Flexural Strength ⁴	69.6	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	70.0	°C	ASTM D648
Melting Temperature	258	°C	DSC

Additional Information

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

Injection	Nominal Value	Unit
Drying Temperature	71.1 - 82.2	°C
Drying Time	4.0 - 6.0	hr
Rear Temperature	249 - 266	°C
Middle Temperature	266 - 277	°C
Front Temperature	277 - 288	°C
Nozzle Temperature	282 - 288	°C
Processing (Melt) Temp	277 - 293	°C
Mold Temperature	76.7 - 87.8	°C
Injection Rate	Fast	
Back Pressure	0.138 - 0.345	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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