

NYCOA Polyamide 5300 ST

Polyamide 66

Nycoa (Nylon Corporation of America)

Message:

NYCOA 5300 ST is a super tough Nylon 66 which offers outstanding toughness, exceptional processability, and a very high degree of impact strength at room temperature as well as sub-zero temperatures.

NYCOA 5300 ST is available in heat stable, UV stable, as well as custom colors.

NYCOA 5300 ST is found in applications such as power-tool housings, ski bindings, and lawn & garden equipment.

General Information			
Features	Ultra high toughness		
	Impact resistance, high		
	Workability, good		
	Low temperature impact resistance		
Uses	Lawn and Garden Equipment		
	Sporting goods		
	Shell		
Appearance	Available colors		
Forms	Particle		
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)	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	48.3	MPa	ASTM D638
Tensile Elongation ² (Break)	70	%	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			ASTM D256
6.35 mm	850	J/m	ASTM D256
-40°C, 6.35 mm	200	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.			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 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

