

NYCOA Polyamide 5013 HS

Polyamide 66

Nycoa (Nylon Corporation of America)

Message:

NYCOA 5013 HS is a 13% glass fiber reinforced, heat stabilized Nylon 66 resin used for injection molding.

NYCOA 5013 HS offers better mechanical and thermal properties than most conventional Nylon 66. This grade is available in light stable, flame retardant and custom color formats.

Typical applications include electrical connectors, circuit breaker parts and automotive under the hood applications.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 13% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
Uses	Electrical components		
	Connector		
	Parts under the hood of a car		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.70	%	ASTM D955
Transverse flow	1.2	%	ASTM D955
Water Absorption (24 hr)	1.3	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	5400	MPa	ASTM D638
Tensile Strength ²	112	MPa	ASTM D638
Tensile Elongation ³ (Break)	3.0	%	ASTM D638
Flexural Modulus ⁴	4790	MPa	ASTM D790
Flexural Strength ⁵	158	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	249	°C	ASTM D648
1.8 MPa, not annealed	232	°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.	51 mm/min
2.	50 mm/min
3.	50 mm/min
4.	50 mm/min
5.	50 mm/min

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

