

NYCOA Polyamide 5113 HS

Polyamide 66

Nycoa (Nylon Corporation of America)

Message:

NYCOA 5113 HS is a 13% glass fiber reinforced, heat stabilized, impact modified Nylon 66 resin used for injection molding.

NYCOA 5113 HS has been specifically formulated for improved ductility and impact strength vs standard grades of glass filled Nylon 66.

Typical applications include shoe sole plates, hardware items and automotive under the hood applications.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 13% filler by weight		
Additive	Impact modifier heat stabilizer		
Features	Impact modification Impact resistance, good Thermal Stability ductility		
Uses	Parts under the hood of a car Footwear		
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)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	4620	MPa	ASTM D638
Tensile Strength ²	101	MPa	ASTM D638
Tensile Elongation ³ (Break)	4.0	%	ASTM D638
Flexural Modulus ⁴	3580	MPa	ASTM D790
Flexural Strength ⁵	140	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	160	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

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