

# Nylene® 5113 HS

Polyamide 66

Custom Resins Group

Message:

Heat stabilized, 13% glass fiber-reinforced nylon 6/6 featuring high tensile strength and stiffness

The product is approved to Ford Motor Company specification ESE-M4D349-A

The ASTM line call out is D4066 PA012G13

General Information	
Filler / Reinforcement	Glass Fiber,13% Filler by Weight
Additive	Heat Stabilizer
Features	Good Stiffness
	Good Strength

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	89.6	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	7.0	%	ASTM D638
Flexural Modulus (23°C)	4790	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	258	°C	
1.8 MPa, Unannealed	216	°C	
Peak Melting Temperature	254	°C	ASTM D3418
Flammability	Nominal Value		Test Method
Flame Rating (0.750 mm)	HB		UL 94

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