

# Nylene® 134 HS

## TECHNICAL DATASHEET

TDS Ref # 779 Reviewed: 2/7/2014

### DESCRIPTION

- Nylene 134 HS is a low viscosity, heat stabilized and nucleated nylon 6/6 molding resin.

PROPERTIES	TEST METHOD	UNIT	VALUE
<b>PHYSICAL PROPERTIES</b>			
Mold Shrinkage	n/a	in/in	0.013
Specific Gravity	D792	n/a	1.14
<b>MECHANICAL PROPERTIES</b>			
Elongation @ Break	(%)	psi (MPa)	30
Flexural Modulus	D790	psi (MPa)	472,000 (3,255)
Notched Izod @ 23°C	D256	ftlb/in (J/m)	0.8 (43)
Tensile Strength	D638	psi (MPa)	13,000 (90)
<b>THERMAL PROPERTIES</b>			
DTUL @ 1820 kPa	D648	°F (°C)	185 (85)
DTUL @ 455 KPa	D648	°F (°C)	455 (235)
Melt Point	D3418	°F (°C)	490 (254)

### NOTES

- Testing conducted on dry-as-molded specimens at 73°F

### PROCESSING CONSIDERATIONS: PA 6/6 UNREINFORCED

TEMPERATURE °F (°C)	Rear Zone	500-540 (260-282)	<b>Melt Temperature:</b> Nylene® PA6/6 melts at 490 °F (254°C), actual melt temperatures of 540-600 (282-316°C) are permissible, depending on residence time and shot size.
	Center Zone	520-560 (271-293)	<b>Mold Temperature:</b> 120-200 °F (49-93°C), highly filled grades require 180-200 °F (82-93°C) to obtain the best overall surface appearance, higher temperatures will increase crystallinity.
	Front Zone	540-580 (282-304)	<b>Residence Time:</b> should not exceed 6 minutes if possible, less with higher melt temperatures.
	Nozzel	535-575 (279-301)	<b>Shot Size:</b> should be between 25-75% of barrel capacity.
	Melt Temp.	540-580 (282-304)	<b>Fill Rate:</b> fast fill rates are suggested for best surface appearance.
PRESSURE	Injection	7-15,000	<b>Regrind Level:</b> typically no more than 25% is recommended, with higher levels possible for unfilled grades depending on the end use requirements. Make certain regrind is properly dried to virgin moisture levels.
	Hold	5-12,000	<b>Drying Temperature:</b> 150-180 °F (65-182°C)(for 2-4 hours, Nylene® PA6/6 should be dried to less than 0.20% moisture for optimum performance. Drying longer than 4 hours or at higher temperatures may cause oxidation of the polymer or remove essential volatiles.
	Back	0-50	

### CHARACTERISTICS

Resin Type: Nylon 6/6  
 Product Characteristics:  
 Unreinforced, Heat Stabilized,  
 Nucleating Agent, Low RV

### INJECTION MOLDING PROCESSING

Prime Grade

### FEATURES

- Excellent Mold Release
- Fatigue Resistance
- General Purpose
- Good Friction Characteristics
- Impact Resistant
- Nucleated for Fast Cycle Times
- Resists Fuel, Oil, & Grease

### MARKETS USED

- Automotive Applications
- General Applications
- Industrial Applications
- Furniture & Household

### APPLICATIONS

- Bearings
- Bottle Caps
- Cams
- Conveyor Roller
- Exterior/Interior Car Parts
- Fasteners
- Levers
- Parts Tray
- Racks
- Small and Large Appliances

### DISCLAIMER

The data set forth herein has been carefully compiled by Nylene in our laboratories. Values shown are typical properties and not specifications. Since processing variables will affect properties, the reproducibility of our data in a customer's testing facility is not guaranteed. There is no warranty of any kind, either expressed or implied, applicable to the use of this information, and the user assumes all risk and liability in connection therewith.



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