

Nylene® 8005 HSL

TECHNICAL DATASHEET

TDS Ref # 159 Reviewed: 2/2/2015

DESCRIPTION

- Nylene 8005 or 8005 HSL is an economy grade, impact modified PA 6,6 molding resin
- Has the high heat and chemical resistance characteristic of nylon 6/6 with a good impact

PROPERTIES	TEST METHOD	UNIT	VALUE
PHYSICAL PROPERTIES			
Mold Shrinkage	n/a	in/in	0.015
Specific Gravity	D792	n/a	1.08
MECHANICAL PROPERTIES			
Elongation	D638	%	80
Flexural Modulus	ISO 178	MPa (psi)	225,000 (1552)
Notched Izod @ 23°C	D256	ft. lb./ in. (J/m)	10 (535)
Tensile Strength	D638	psi (MPa)	6500 (45)
THERMAL PROPERTIES			
Melt Point	D3418	°F (°C)	500 (260)

NOTES

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

PROCESSING CONSIDERATIONS: PA 6 IMPACT MODIFIED

°F (°C)	Rear Zone	440-500 (227-260)	<p>Melt Temperature: Melt Temperature: Nylene® PA6 melts at 428°F, (220°C) actual melt temperatures of 440-560°F (227-293°C) are permissible, depending on residence time and shot size.</p> <p>Mold Temperature: 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.</p> <p>Residence Time: should not exceed 6 minutes if possible, less with higher melt temperatures</p> <p>Shot Size: should be between 25-75% of barrel capacity.</p> <p>Fill Rate: fast fill rates are suggested for best surface appearance.</p> <p>Regrind Level: 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.</p> <p>Drying Temperature: 150-180°F (66-82°C) for 2-4 hours, Nylene® PA6 should be dried to less than 0.20% moisture for optimum performance. Drying longer than 4 hours or at higher temperatures may cause discoloration of the polymer or adversely affect important physical properties.</p>
	Center Zone	460-520 (238-271)	
	Front Zone	480-540 (249-282)	
	Nozzel	480-540 (249-282)	
	Melt Temp.	480-540 (249-282)	
PRESSURE	Injection	7-15,000	
	Hold	5-12,000	
	Back	0-50	

CHARACTERISTICS

Resin Type: Nylon 6
 Product Characteristics:
 Impact Modified

INJECTION MOLDING PROCESSING

Prime Grade

AUTOMOTIVE SPECIFICATION

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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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