

Nylene® 7140

TECHNICAL DATASHEET

TDS Ref # 149 Reviewed: 8/19/2013

DESCRIPTION

• Nylene 7140 is a nylon 66 resin containing 2.5% molybdenum disulfide providing greatly reduced friction and wear without significantly affecting other engineering properties.

PROPERTIES	TEST METHOD	UNIT	VALUE
MECHANICAL PROPERTIES			
Elongation @ Break	(%)	psi (MPa)	25
Flexural Modulus	D790	psi (MPa)	440,000 (3,055)
Notched Izod @ 23°C	D256	ftlb/in (J/m)	0.5 (28)
Tensile Strength	D638	psi (MPa)	12,300 (85)
THERMAL PROPERTIES			
Melt Point	D3418	°F (°C)	504 (262)

NOTES

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

PROCESSING CONSIDERATIONS: PA 6/6 UNREINFORCED

°F (°C)	Rear Zone	500-540 (260-282)	<p>Melt Temperature: 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.</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 (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.</p>
	Center Zone	520-560 (271-293)	
	Front Zone	540-580 (282-304)	
	Nozzel	535-575 (279-301)	
	Melt Temp.	540-580 (282-304)	
PRESSURE	Injection	7-15,000	
	Hold	5-12,000	
	Back	0-50	

CHARACTERISTICS

Resin Type: Nylon 6/6
 Product Characteristics:
 Unreinforced, Molybdenum Disulphide Lubricated

INJECTION MOLDING PROCESSING

Prime Grade

FEATURES

- Good chemical resistance
- Good strength
- Good wear resistance
- Homopolymer
- Low friction

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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