

Nylene® 5130 HR NAT

TECHNICAL DATASHEET

TDS Ref # 846 Reviewed: 1/7/2015

DESCRIPTION

- Nylene 5130 HR NAT is a 30% glass fiber-reinforced nylon 6/6 featuring high tensile strength and stiffness.
- Nylene 5130 HR NAT is specially stabilized to improve its resistance automotive cooling liquids.
- Excellent thermal and mechanical properties to increase the lifetime of parts that are in constant contact with automotive chemicals.

PROPERTIES	TEST METHOD	UNIT	VALUE
PHYSICAL PROPERTIES			
Density	ISO 1183/A	g/cm ³ (lb/in ³)	1.37 (85.5)
Water Absorption	ISO 62	%	0.80
MECHANICAL PROPERTIES			
Charpy Notched Impact (23°C)	ISO 179/1eU	kJ/m ² (ft-lb/in ²)	12 (5.71)
Charpy Unnotched Impact (23°C)	ISO 179/1eU	kJ/m ² (ft-lb/in ²)	80 (38.1)
Charpy unnotched impact strength (after	ISO 179/1eU	KJ/m ² (ft-lb/in ²)	70 (33.3)
Elongation @ Break	ISO 527 Type 1A	%	3
Flexural Maximum Stress	D790	MPa (psi)	290 (42100)
	ISO 178	MPa (psi)	280 (42100)
Flexural Modulus	ISO 178	MPa (psi)	9300 (1348851)
Notched Izod @ 23°C	ISO 180/1A	kJ/m ² (lb/ft ²)	11 (5.23)
Tensile Modulus	ISO 527 Type 1A	MPa (psi)	10000 (1450377)
Tensile Strength @ Break	ISO 527 Type 1A	MPa (psi)	190 (27,600)
THERMAL PROPERTIES			
Melt Point	ISO 11357	°C (°F)	263 (505)

NOTES

- Testing conducted on dry-as-molded specimens at 73°F
- D.A.M. = Dry as Molded Cond. = Conditioned
- Please see page 2 for Processing Considerations.

PROCESSING CONSIDERATIONS: PA 6/6 GLASS REINFORCED > 15%

CHARACTERISTICS

Resin Type: Nylon 6/6
 Product Characteristics:
 Glass Reinforced, Specially Stabilized

INJECTION MOLDING PROCESSING

Prime Grade

FEATURES

- Good Chemical Resistance
- High Heat Resistance
- High Strength and Stiffness
- Good Glycol Resistance

MARKETS USED

- Automotive Applications

APPLICATIONS

- Coolant Pipe and Fittings
- Hydraulic Engine Mounts
- Overflow Reservoirs
- Radiator End Tanks
- Thermostat Housings

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.



Headquarters and Facility:
 55 Haul Road, Wayne, NJ 07470
 P: 973-694-4141 | F: 973-694-3549

North American Sales Office:
 31700 Telegraph Rd. Suite 235, MI 48025
 P: 248-377-6769 | F: 248-377-3845

Nylene Custom Resins Facility:
 1421 Hwy 136 W. Henderson, KY 42420
 P: 270-826-7641 | TF: 800-626-7050

Nylene Canada Facility
 200 McNab Street, Arnprior ON, K7S 3P2
 P: 613-623-3191 | TF: 800-267-7394

For a complete listing of our global offices, visit:
www.nylene.com/contactus
www.nylene.com | info@nylene.com

Copyright ©2019, Nylene. All rights reserved. Nylene is a designated trademark of Polymeric Resources Corporation.