



# HYRIL SAN500

Entec Polymers - Styrene Acrylonitrile

Tuesday, November 5, 2019

## General Information

### General

|                 |                      |
|-----------------|----------------------|
| Material Status | • Commercial: Active |
| Availability    | • North America      |
| Features        | • Copolymer          |
| Forms           | • Pellets            |

## ASTM & ISO Properties <sup>1</sup>

|  | Nominal Value    | Unit     | Test Method             |
|--|------------------|----------|-------------------------|
| <b>Physical</b>  |                  |          |                         |
| Density / Specific Gravity                               | 1.07             |          | ASTM D792               |
| Melt Mass-Flow Rate (230°C/3.8 kg)                       | 8.0              | g/10 min | ASTM D1238              |
| Molding Shrinkage - Flow                                 | 3.0E-3 to 7.0E-3 | in/in    | ASTM D955               |
| <b>Mechanical</b>  |                  |          |                         |
| Tensile Strength (Yield, 73°F)                           | 10400            | psi      | ASTM D638               |
| Tensile Elongation (Break, 73°F)                         | 2.5              | %        | ASTM D638               |
| Flexural Modulus (73°F)                                  | 561000           | psi      | ASTM D790               |
| Flexural Strength (Yield, 73°F)                          | 17900            | psi      | ASTM D790               |
| <b>Impact</b>  |                  |          |                         |
| Notched Izod Impact (73°F, 0.125 in)                     | 0.30             | ft·lb/in | ASTM D256               |
| <b>Hardness</b>  |                  |          |                         |
| Rockwell Hardness (R-Scale)                              | 125              |          | ASTM D785               |
| <b>Thermal</b>   |                  |          |                         |
| Deflection Temperature Under Load (66 psi, Unannealed)   | 206              | °F       | ASTM D648               |
| Deflection Temperature Under Load<br>264 psi, Unannealed | 186              | °F       | ASTM D648               |
| Vicat Softening Temperature                              | 227              | °F       | ASTM D1525 <sup>2</sup> |
| CLTE - Flow  | 3.3E-5           | in/in/°F | ASTM D696               |
| <b>Optical</b>   |                  |          |                         |
| Transmittance  | 89.0             | %        | ASTM D1003              |
| Haze   | 0.600            | %        | ASTM D1003              |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Rate B (120°C/h), Loading 1 (10 N)