



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 ¹

| Physical | Nominal Value | Unit | Test Method |
|--|------------------|----------|-------------------------|
| 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 |
| Mechanical | Nominal Value | Unit | Test Method |
| 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 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (73°F, 0.125 in) | 0.30 | ft-lb/in | ASTM D256 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 125 | | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed) | 206 | °F | ASTM D648 |
| Deflection Temperature Under Load 264 psi, Unannealed | 186 | °F | ASTM D648 |
| Vicat Softening Temperature | 227 | °F | ASTM D1525 ² |
| CLTE - Flow | 3.3E-5 | in/in/°F | ASTM D696 |
| Optical | Nominal Value | Unit | Test Method |
| Transmittance | 89.0 | % | ASTM D1003 |
| Haze | 0.600 | % | ASTM D1003 |

Notes

¹ Typical properties: these are not to be construed as specifications.

² Rate B (120°C/h), Loading 1 (10 N)