

## Technical Data Sheet

### Centrex ASA 825A 000000NAT



Acrylonitrile Styrene Acrylate

#### Product Description

Centrex ASA 825A 000000NAT is a Acrylonitrile Styrene Acrylate material and is typically used in Extrusion, Sheet Extrusion, Thermoforming applications. Features include: Good Melt Strength, Good Weather Resistance, High Gloss, High Impact Resistance, and UV Resistant.

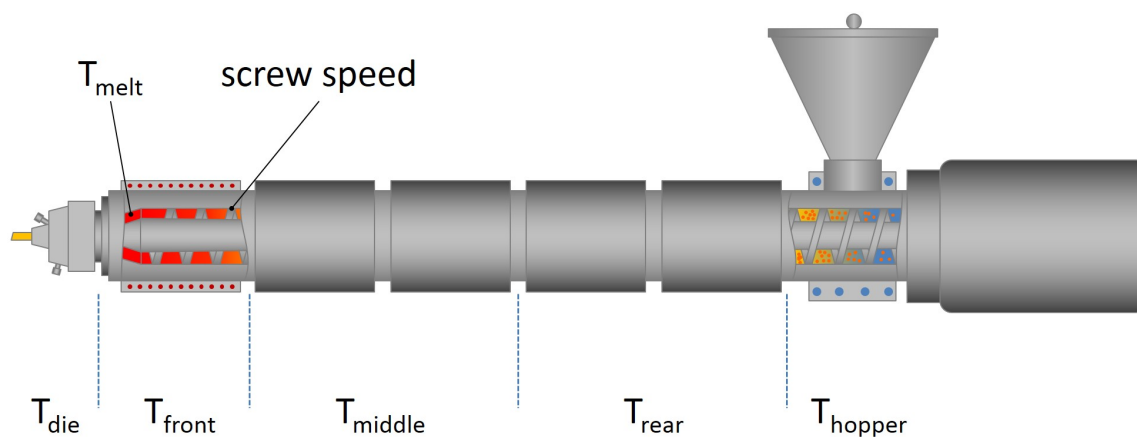
#### Regulatory Status

For regulatory compliance information, see ASA 825A 000000NAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                   |                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------|
| Status            | Commercial: Active                                                                            |
| Availability      | North America                                                                                 |
| Processing Method | Extrusion; Sheet Extrusion                                                                    |
| Attribute         | Good Melt Strength; Good Weather Resistance; High Gloss; High Impact Resistance; UV Resistant |
| Forms             | Pellets                                                                                       |
| Application       | Marine Applications; Outdoor Applications; Sheet; Spas; Water Sports Equipment                |

| Typical Properties                                                           | Nominal Value | Units             | Test Method |
|------------------------------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                                              |               |                   |             |
| Melt Flow Rate                                                               |               |                   |             |
| (230 °C/3.8 kg)                                                              | 3.0           | g/10 min          | ASTM D1238  |
| (220 °C/10.0 kg)                                                             | 12            | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                                                   | 1.05          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                                            |               |                   |             |
| Tensile Elongation at Yield                                                  | 2.7           | %                 | ASTM D638   |
| Tensile Strength at Yield, (5.1 mm/min)                                      | 44.1          | MPa               | ASTM D638   |
| Flexural Modulus, (1.3 mm/min, Tangent)                                      | 2100          | MPa               | ASTM D790   |
| Tensile Modulus, (5.1 mm/min)                                                | 2280          | MPa               | ASTM D638   |
| Flexural Strength, (1.3 mm/min)                                              | 48.3          | MPa               | ASTM D790   |
| <b>Impact</b>                                                                |               |                   |             |
| Notched Izod Impact                                                          |               |                   |             |
| (23 °C, 3.18 mm)                                                             | 210           | J/m               | ASTM D256   |
| (-30 °C, 3.18 mm)                                                            | 91            | J/m               | ASTM D256   |
| (-18 °C, 3.18 mm)                                                            | 110           | J/m               | ASTM D256   |
| <b>Thermal</b>                                                               |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)            | 77.7          | °C                | ASTM D648   |
| Coefficient of Linear Thermal Expansion (CLTE), Flow, (-40 to 40 °C)         | 8.1E-5        | cm/cm/°C          | ASTM D696   |
| Coefficient of Linear Thermal Expansion (CLTE), Perpendicular, (-40 to 4 °C) | 1.1E-4        | cm/cm/°C          | ASTM D696   |

|                                              |           |            |
|----------------------------------------------|-----------|------------|
| RTI Elec                                     |           |            |
| (1.5 mm)                                     | 50.0 °C   | UL 746B    |
| (3.0 mm)                                     | 50.0 °C   | UL 746B    |
| (0.75 mm)                                    | 50.0 °C   | UL 746B    |
| RTI Imp                                      |           |            |
| (1.5 mm)                                     | 50.0 °C   | UL 746B    |
| (3.0 mm)                                     | 50.0 °C   | UL 746B    |
| (0.75 mm)                                    | 50.0 °C   | UL 746B    |
| RTI Str                                      |           |            |
| (1.5 mm)                                     | 50.0 °C   | UL 746B    |
| (3.0 mm)                                     | 50.0 °C   | UL 746B    |
| (0.75 mm)                                    | 50.0 °C   | UL 746B    |
| <b>Flammable</b>                             |           |            |
| Hot-wire Ignition (HWI)                      |           | UL 746A    |
| <b>Optical</b>                               |           |            |
| Gloss, (60°, Untextured, High Gloss Surface) | 90 to 100 | ASTM D2457 |
| <b>UL Information</b>                        |           |            |
| Flame Rating                                 |           |            |
| (1.5 mm)                                     | HB        | UL 94      |
| (3.0 mm)                                     | HB        | UL 94      |
| (0.75 mm)                                    | HB        | UL 94      |
| UL File Number                               | E51193    |            |
| Outdoor Suitability                          |           | UL 746C    |



| Extrusion Parameters   | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time            | 3.0 to 4.0    | hr    |
| Suggested Max Moisture | <0.020        | %     |
| Suggested Max Re grind | 40            | %     |
| Drying Temperature     | 82 to 93      | °C    |

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

© LyondellBasell Industries Holdings, B.V. 2018

## Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

## Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.