

## Technical Data Sheet

### Centrex ASA 814 000000NAT



Acrylonitrile Styrene Acrylate

#### Product Description

Centrex ASA 814 000000NAT is a Acrylonitrile Styrene Acrylate material and is typically used in Injection Molding applications. Features include: Good Processability, Good Weather Resistance, High Gloss, High Impact Resistance, and UV Resistant.

#### Regulatory Status

For regulatory compliance information, see ASA 814 000000NAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                   |                                                                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Status            | Commercial: Active                                                                                                                                         |
| Availability      | North America                                                                                                                                              |
| Processing Method | Injection Molding                                                                                                                                          |
| Attribute         | Good Processability; Good Weather Resistance; High Gloss; High Impact Resistance; UV Resistant                                                             |
| Forms             | Pellets                                                                                                                                                    |
| Application       | Decorative Displays; Electronic Displays; Lawn & Garden Equipment; Marine Applications; Outdoor Applications; Spas; Sporting Goods; Water Sports Equipment |

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate, (200 °C/10.0 kg)                       | 9.0           | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 1.05          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength at Yield, (5.1 mm/min)                | 38.6          | MPa               | ASTM D638   |
| Flexural Modulus, (1.3 mm/min, Tangent)                | 2240          | MPa               | ASTM D790   |
| Tensile Modulus, (5.1 mm/min)                          | 2100          | MPa               | ASTM D638   |
| Flexural Strength, (1.3 mm/min)                        | 68.6          | MPa               | ASTM D790   |
| <b>Impact</b>                                          |               |                   |             |
| Instrumented Dart Impact                               |               |                   |             |
| (23 °C)                                                | 33.0          | J                 | ASTM D3763  |
| (-30 °C)                                               | 8.20          | J                 | ASTM D3763  |
| Notched Izod Impact                                    |               |                   |             |
| (23 °C, 3.18 mm)                                       | 270           | J/m               | ASTM D256   |
| (-30 °C, 3.18 mm)                                      | 75            | J/m               | ASTM D256   |
| <b>Hardness</b>                                        |               |                   |             |
| Rockwell Hardness, (R-Scale)                           | 101           |                   | ASTM D785   |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) |               |                   |             |
| (3.18 mm)                                              | 71.1          | °C                | ASTM D648   |
| (6.35 mm)                                              | 76.7          | °C                | ASTM D648   |
| RTI Elec, (1.5 mm)                                     | 50.0          | °C                | UL 746B     |
| RTI Imp, (1.5 mm)                                      | 50.0          | °C                | UL 746B     |
| RTI Str, (1.5 mm)                                      | 50.0          | °C                | UL 746B     |

**UL Information**

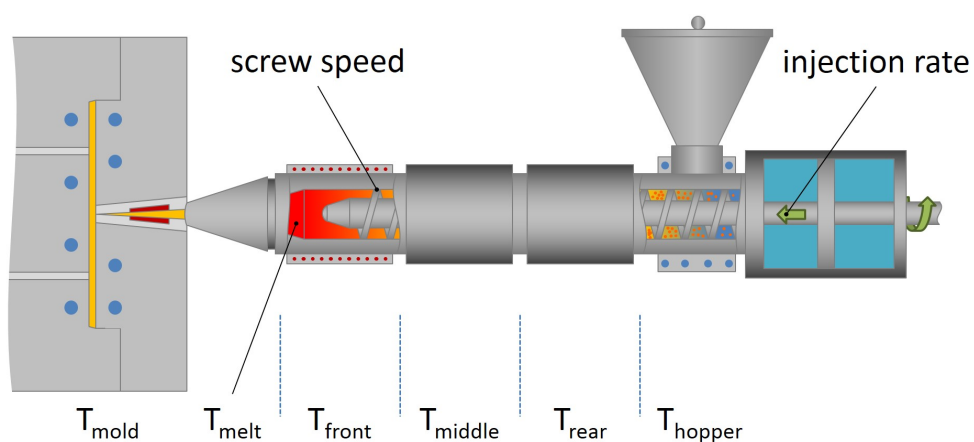
Flame Rating

HB

UL 94

UL File Number, (USA)

E150937



| Injection Parameters    | Nominal    |       |
|-------------------------|------------|-------|
|                         | Value      | Units |
| Drying Time             | 2          | hr    |
| Drying Temperature      | 82 to 88   | °C    |
| Suggested Max Moisture  | 0.1        | %     |
| Nozzle Temperature      | 238 to 271 | °C    |
| Processing (Melt) Temp  | 238 to 271 | °C    |
| Front Temperature       | 238 to 271 | °C    |
| Screw L/D Ratio         | 20.0-1.0   |       |
| Screw Compression Ratio | 2.5-1.0    |       |
| Suggested Shot Size     | 50 to 70   | %     |
| Middle Temperature      | 238 to 271 | °C    |
| Rear Temperature        | 238 to 271 | °C    |
| Injection Rate          | Moderate   |       |
| Mold Temperature        | 43 to 82   | °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/>.

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