

## Technical Data Sheet

### Polyman ASA WR/MI NOM BUE45375



Acrylonitrile Styrene Acrylate

#### Product Description

medium impact ASA grade with good weatherability

#### Regulatory Status

For regulatory compliance information, see *Polyman ASA WR/MI NOM BUE45375* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                   |                                                         |
|-------------------|---------------------------------------------------------|
| Status            | Commercial: Active                                      |
| Availability      | Africa-Middle East; Asia-Pacific; Europe; Latin America |
| Processing Method | Injection Molding                                       |
| Resin ID          | ASA                                                     |

| Typical Properties                                                  | Nominal Value | Units                   | Test Method   |
|---------------------------------------------------------------------|---------------|-------------------------|---------------|
| <b>Physical</b>                                                     |               |                         |               |
| Melt Volume Flow Rate, (220 °C/10.0 kg)                             | 19            | cm <sup>3</sup> /10 min | ISO 1133      |
| Density, (Method A)                                                 | 1.05          | g/cm <sup>3</sup>       | ISO 1183      |
| <b>Mechanical</b>                                                   |               |                         |               |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                       | 39.0          | MPa                     | ISO 527-2     |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                       | 3.1           | %                       | ISO 527-2     |
| Tensile Modulus, (1 mm/min, Type 1A)                                | 1800          | MPa                     | ISO 527-1     |
| <b>Impact</b>                                                       |               |                         |               |
| Charpy Impact Strength - Notched                                    |               |                         |               |
| (23 °C, Type 1, Edgewise, Notch A)                                  | 17            | kJ/m <sup>2</sup>       | ISO 179       |
| (-30 °C, Type 1, Edgewise, Notch A)                                 | 5.0           | kJ/m <sup>2</sup>       | ISO 179       |
| Charpy Impact Strength - Unnotched                                  |               |                         |               |
| (23 °C, Type 1, Edgewise)                                           | No Break      |                         | ISO 179       |
| (-30 °C, Type 1, Edgewise)                                          | 80            | kJ/m <sup>2</sup>       | ISO 179       |
| <b>Hardness</b>                                                     |               |                         |               |
| Ball Indentation Hardness, (H 358/30)                               | 82.0          | MPa                     | ISO 2039-1    |
| <b>Thermal</b>                                                      |               |                         |               |
| Vicat Softening Temperature                                         |               |                         |               |
| (B (50N), 50 °C/h)                                                  | 93.0          | °C                      | ISO 306       |
| (A (10N), 50 °C/h)                                                  | 102           | °C                      | ISO 306       |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 82.0          | °C                      | ISO 75-2/B    |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 71.0          | °C                      | ISO 75-2/A    |
| <b>Electrical</b>                                                   |               |                         |               |
| Volume Resistivity                                                  | >1.0E+13      | ohm*m                   | IEC 62631-3-1 |
| Comparative Tracking Index (CTI)                                    | 600           | V                       | IEC 60112     |
| Surface Resistivity                                                 | >1.0E+15      | ohm                     | IEC 60093     |
| <b>Flammable</b>                                                    |               |                         |               |

|                                |        |                      |
|--------------------------------|--------|----------------------|
| Glow Wire Flammability Index   |        |                      |
| (1.5 mm)                       | 675 °C | IEC 60695-2-12       |
| (3.0 mm)                       | 675 °C | IEC 60695-2-12       |
| Glow Wire Ignition Temperature |        |                      |
| (1.5 mm)                       | 700 °C | IEC 60695-2-13       |
| (3.0 mm)                       | 700 °C | IEC 60695-2-13       |
| <b>UL Information</b>          |        |                      |
| Flammability Classification    |        |                      |
| (1.5 mm)                       | HB     | IEC 60695-11-10, -20 |
| (3.0 mm)                       | HB     | IEC 60695-11-10, -20 |
| UL File Number                 | E86615 |                      |

## 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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