

# AGP200

## Norseal® AGP200 Bio-based PUR Foam

### Conforms to demanding sealing applications and interior requirements

In order to meet the increasingly demanding requirements of the automotive, construction and other markets, **Saint-Gobain®** Performance Plastics Corporation, Tape Solutions business, has developed **Norseal** AGP200, an unmatched bio-based polyurethane foam intended to deliver superior sealing performance. By combining high material softness with outstanding sealing performances, AGP200 intends to provide a unique solution for applications requiring water tightness yet high softness and conformability. AGP200 is therefore perfectly suitable when large tolerances must be recovered or when low deflection force on pieces in contact is needed. Thanks to its skins on both sides, AGP200 can be used with only 30% compression to achieve full sealability to water, dust, wind and noise, even under extreme environmental and temperature conditions. This single advantage compared to other gasketing technologies is intended for you to perform cost savings by using less material to fill the same gap.

Tailored to match the demanding requirements of applications inside or in contact with the circulating air, AGP200 is intended to reach especially low fogging and VOC emissions as well as low smell. AGP200 is a product manufactured with bio-based materials, without plasticizers, that enable a high compatibility with any kind of adhesive. This exceptional blend of distinctive properties intends AGP200 to be the most suitable solution for a broad range of highly demanding gasketing applications in automotive, construction and other markets.

### Features & Benefits

- Outstanding water tightness for demanding sealing applications
- Softness, conformability and low force to compress for large tolerances recovery and no distortion on pieces in contact
- Material and cost savings as only 30% compression is required for sealability
- Extremely low fogging and VOC emissions, low odour, for direct use in interior applications (Sulfur Free formulations)
- Broad temperature range allowing automotive underhood applications
- Superior flame resistance and very high thermal insulation properties
- Plasticizer free, making high compatibility with any kind of adhesive, and no crazing of thermoplastics
- Excellent aging capabilities for lasting properties



### APPLICATIONS

- Automotive HVAC gasketing
- Instrument panel and windscreen sealing
- Roof and pillar mounting
- Windows and doors sealing in buildings
- Modular construction



- ✓ Environmental impacts assessed (Life Cycle)
- ✓ Environmental Product Declaration verified

**Norseal AGP200 – Properties**

Performance tests are run using standard test procedures. The values presented are typical values and should not be used for specification purposes.

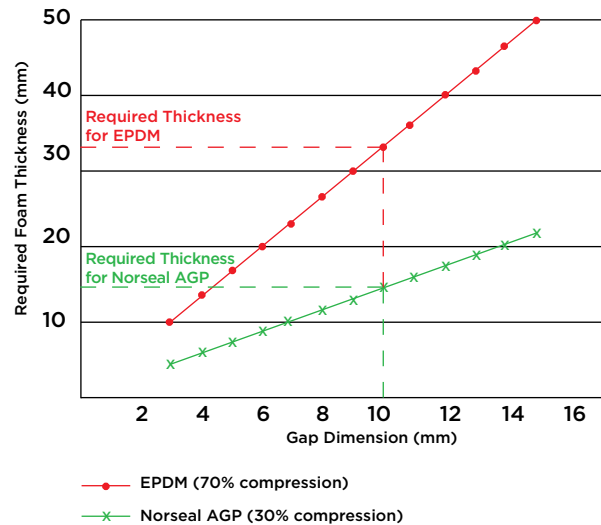
|                               |   |
|-------------------------------|---|
| Thickness (mm) × Length (m)   | 3×65 - 4.5×45 - 6×35 - 8×25 - 10×20 - 12×19 - 15×14 - 17×12 - 20×10 - 25×8 - 30×7 |
| Thickness tolerance = +/- 15% |   |
| Colour:                       | Black   |
| Configuration:                | Without adhesive (with liner)   |
| Log size:                     | Usable width = 1000 mm<br>Log diameter = +/- 0.50 m<br>Core = 75mm                |
| Packaging:                    | 4 logs / box - 1 box / pallet   |

| Property                              | Test Method                       | Value or Rating        |                    |       |
|---------------------------------------|-----------------------------------|------------------------|--------------------|-------|
|                                       |                                   | 3 mm                   | 4.5 & 6mm          | > 8mm |
| Force to compress @ 30% (kPa)         | ASTM D-1667                       | 11                     | 9                  | 7     |
| Deflection @ 30% (kPa)                | ASTM D-1667                       | 7                      | 5                  | 4     |
| Density (kg/m <sup>3</sup> )          | ISO 845                           | 70                     | 60                 | 50    |
| Elongation (%)                        | ASTM D-3574 Die A                 | 100                    | 100                | 125   |
| Tensile strength (N/cm <sup>2</sup> ) | ASTM D-3574                       | 10                     | 8                  | 8     |
| Compression Set (%)                   | ASTM D-1667                       | 10                     |                    |       |
| Compression ratio for water seal (%)  | -                                 | 30                     |                    |       |
| Fogging                               | SAE J1 756 - 3 hrs @ 100°C / 21°C | > 95% clarity          |                    |       |
|                                       | VW 50180                          | Pass                   |                    |       |
| Flammability (mm/min)                 | ISO 3795 / FMVSS 302              | 50                     |                    |       |
| Temperature (°C)                      |                                   | Continuous: -40 to +70 | Intermittent: +120 |       |

**Recommended Norseal AGP200 Thickness vs. Gap to Fill**

| Gap to Seal (mm) | Recommended AGP200 Thickness (mm) * |
|------------------|-------------------------------------|
| 2                | 3                                   |
| 3                | 4.5                                 |
| 4                | 6                                   |
| 5                | 8                                   |
| 6                | 10                                  |
| 7                | 10                                  |
| 8                | 12                                  |
| 9                | 15                                  |
| 10               | 15                                  |
| 11               | 17                                  |
| 12               | 17                                  |
| 13               | 20                                  |
| 14               | 20                                  |
| 15               | 25                                  |
| 16               | 25                                  |
| 17               | 25                                  |

\* based on nominal thicknesses



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