

## BASF Neopolen® P 9235 0.04 g/cc Core density; Expanded Polypropylene (Europe)

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Foamed

### Material Notes:

Description: Neopolen® P 9235 is expanded Polypropylene supplied in the form of beads. The cells are largely closed. Physical properties of moldings made from Neopolen® P 9235. Note: In order to measure the physical properties, parts with dimensions 300x200x60 mm were molded on a machine typical for the EPP industry under standard conditions. The properties can vary depending on part geometry and processing parameters. Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Neopolen-P-9235-004-gcc-Core-density-Expanded-Polypropylene-Europe.php](http://www.lookpolymers.com/polymer_BASF-Neopolen-P-9235-004-gcc-Core-density-Expanded-Polypropylene-Europe.php)

| Physical Properties | Metric                      | English                              | Comments  |
|---------------------|-----------------------------|--------------------------------------|-----------|
| Bulk Density        | 0.0300 - 0.0360 g/cc        | 0.00108 - 0.00130 lb/in <sup>3</sup> |           |
| Density             | 0.0400 g/cc                 | 0.00145 lb/in <sup>3</sup>           | ISO 845   |
| Water Absorption    | <= 1.0 %<br>@Time 86400 sec | <= 1.0 %<br>@Time 24.0 hour          | DIN 53428 |
| Particle Size       | >= 1500 µm                  | >= 1500 µm                           |           |
|                     | <= 4000 µm                  | <= 4000 µm                           |           |

| Mechanical Properties | Metric                                          | English                                         | Comments                                                        |
|-----------------------|-------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------|
| Tensile Strength      | 0.600 MPa                                       | 87.0 psi                                        | DIN EN ISO 1798                                                 |
| Elongation at Break   | 33 %                                            | 33 %                                            | DIN EN ISO 1798                                                 |
| Compressive Strength  | 0.180 MPa<br>@Strain 10.0 %                     | 26.1 psi<br>@Strain 10.0 %                      | ISO 844                                                         |
|                       | 0.220 MPa<br>@Strain 25.0 %                     | 31.9 psi<br>@Strain 25.0 %                      | ISO 844                                                         |
|                       | 0.330 MPa<br>@Strain 50.0 %                     | 47.9 psi<br>@Strain 50.0 %                      | ISO 844                                                         |
| Compression Set       | 28 %<br>@Temperature 23.0 °C,<br>Time 79200 sec | 28 %<br>@Temperature 73.4 °F,<br>Time 22.0 hour | 50% RH; 24h after stress release; DIN EN ISO 1856 (Procedure C) |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Thermal Conductivity<br>Thermal Properties | 0.0380 W/m-K<br>Metric | 0.264 BTU-in/hr-ft <sup>2</sup> -°F<br>English | DIN 52612<br>Comments |
|--------------------------------------------|------------------------|------------------------------------------------|-----------------------|
| Melting Point                              | 120 - 180 °C           | 248 - 356 °F                                   |                       |
| Decomposition Temperature                  | >= 180 °C              | >= 356 °F                                      |                       |
| Flash Point                                | >= 200 °C              | >= 392 °F                                      | ASTM D1929            |

| Descriptive Properties        | Value        | Comments                                               |
|-------------------------------|--------------|--------------------------------------------------------|
| Average Particle Weight       | 0.6 - 1.0 mg |                                                        |
| Color                         | Black        |                                                        |
| Commercial Status             | Europe       |                                                        |
| Dimensional Stability at Heat | <2%          | Linear size alterations after 4 d, 110°C; DIN ISO 2796 |
| Ignition Temperature          | > 360 °C     | ASTM D1929                                             |

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