# BASF Neopolen® P 9235 0.035 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-9235-0035-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/in³ | |
| Density | 0.0350 g/cc | 0.00126 lb/in³ | 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 | 0.530 MPa | 76.9 psi | DIN EN ISO 1798 |
| Elongation at Break | 34 % | 34 % | DIN EN ISO 1798 |
| Compressive Strength | 0.150 MPa<br>@Strain 10.0 % | 21.8 psi<br>@Strain 10.0 % | ISO 844 |
| | 0.180 MPa<br>@Strain 25.0 % | 26.1 psi<br>@Strain 25.0 % | ISO 844 |
| | 0.280 MPa<br>@Strain 50.0 % | 40.6 psi<br>@Strain 50.0 % | ISO 844 |
| Compression Set | 29 %<br>@Temperature 23.0 °C, Time 79200 sec | 29 %<br>@Temperature 73.4 °F, Time 22.0 hour | 50% RH; 24h after stress release; DIN EN ISO 1856 (Procedure C) |

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

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| Thermal Conductivity | 0.0370 W/m-K | 0.257 BTU-in/hr-ft²-°F | DIN 52612 |
| 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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