

# Borealis HE3368

High Density (HMW) Polyethylene

**Borealis AG**

## Technical Data

### General

|                   |                                                                                                                                                     |                                                                                                                                                     |                                                                          |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Features          | <ul style="list-style-type: none"><li>• Antioxidant</li><li>• Copolymer</li><li>• Good Abrasion Resistance</li></ul>                                | <ul style="list-style-type: none"><li>• Good Surface Finish</li><li>• High Density</li><li>• High ESCR (Stress Crack Resist.)</li></ul>             | <ul style="list-style-type: none"><li>• High Molecular Weight</li></ul>  |
| Uses              | <ul style="list-style-type: none"><li>• Low Voltage Insulation</li></ul>                                                                            |                                                                                                                                                     |                                                                          |
| Agency Ratings    | <ul style="list-style-type: none"><li>• ASTM D 1248, III, Class A, Cat. 4, Grade D7</li><li>• ASTM D 1248, III, Class A, Cat. 4, Grade D8</li></ul> | <ul style="list-style-type: none"><li>• ASTM D 1248, III, Class A, Cat. 4, Grade E8</li><li>• ASTM D 1248, III, Class A, Cat. 4, Grade E9</li></ul> | <ul style="list-style-type: none"><li>• REA PE-200, Appendix C</li></ul> |
| Appearance        | <ul style="list-style-type: none"><li>• Natural Color</li></ul>                                                                                     |                                                                                                                                                     |                                                                          |
| Forms             | <ul style="list-style-type: none"><li>• Pellets</li></ul>                                                                                           |                                                                                                                                                     |                                                                          |
| Processing Method | <ul style="list-style-type: none"><li>• Extrusion</li></ul>                                                                                         |                                                                                                                                                     |                                                                          |

| Physical                                     | Nominal Value Unit      | Test Method |
|----------------------------------------------|-------------------------|-------------|
| Specific Gravity                             | 0.943 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)    | 0.80 g/10 min           | ASTM D1238  |
| Environmental Stress-Cracking Resistance F20 | 48.0 hr                 | ASTM D1693  |
| Mechanical                                   | Nominal Value Unit      | Test Method |
| Tensile Strength (Break)                     | 23.0 MPa                | ASTM D638   |
| Tensile Elongation (Yield)                   | 600 %                   | ASTM D638   |
| Hardness                                     | Nominal Value Unit      | Test Method |
| Durometer Hardness (Shore D)                 | 61                      | ASTM D2240  |
| Thermal                                      | Nominal Value Unit      | Test Method |
| Brittleness Temperature                      | -76.0 °C                | ASTM D746   |
| Electrical                                   | Nominal Value Unit      | Test Method |
| Volume Resistivity                           | 5.0E+17 ohm·cm          | ASTM D257   |
| Dielectric Strength (0.508 mm)               | 39 kV/mm                | ASTM D149   |
| Dielectric Constant (1 MHz)                  | 2.33                    | ASTM D150   |
| Dissipation Factor (1 MHz)                   | 0.000060                | ASTM D150   |

### Additional Information

The value listed as Dielectric Strength ASTM D149 was tested in accordance with ASTM D3755.  
Oxidation Induction Time, EN 728, 210 °C: 200 min

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.



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HongRong Engineering Plastics Co.,Ltd.  
Head Office Tel. +85-2-6957-5415  
Research Center Tel.+188 1699 6168