

## Borealis FA6224 Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

### Material Notes:

FA6224 is a Low Density Polyethylene for Film Extrusion. Autoclave Technology. Contains Antioxidant, Anti-block and Medium Slip additives. This grade is developed for the production of thin blown films. Applications: pouches, and general packaging film. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-FA6224-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Borealis-FA6224-Low-Density-Polyethylene.php)

| Physical Properties | Metric                               | English                              | Comments                   |
|---------------------|--------------------------------------|--------------------------------------|----------------------------|
| Density             | 0.922 g/cc                           | 0.0333 lb/in <sup>3</sup>            | ISO 1183                   |
| Melt Flow           | 2.1 g/10 min                         | 2.1 g/10 min                         | ISO 1133                   |
|                     | @Load 2.16 kg,<br>Temperature 190 °C | @Load 4.76 lb,<br>Temperature 374 °F |                            |
| Antiblock Level     | 850 ppm                              | 850 ppm                              | talc; Borealis Method      |
| Slip Level          | 500 ppm                              | 500 ppm                              | erucamide; Borealis Method |

| Mechanical Properties              | Metric               | English               | Comments                      |
|------------------------------------|----------------------|-----------------------|-------------------------------|
| Film Elongation at Break, MD       | 350 %                | 350 %                 | ISO 527-3                     |
| Film Elongation at Break, TD       | 600 %                | 600 %                 | ISO 527-3                     |
| Tensile Modulus                    | 0.200 GPa            | 29.0 ksi              | MD; ASTM D882-A               |
|                                    | 0.210 GPa            | 30.5 ksi              | TD; ASTM D882-A               |
| Puncture Energy                    | 1.30 J               | 0.959 ft-lb           | 50 N; 40µm sample; ASTM D5748 |
| Coefficient of Friction            | 0.10                 | 0.10                  | Dynamic; ISO 8295             |
| Elmendorf Tear Strength, MD        | 12.7 g/micron        | 323 g/mil             | ISO 6383/2                    |
| Elmendorf Tear Strength, TD        | 7.65 g/micron        | 194 g/mil             | ISO 6383/2                    |
| Dart Drop Test                     | 100 g                | 0.221 lb              | ISO 7765-1                    |
|                                    | @Thickness 0.0400 mm | @Thickness 0.00157 in |                               |
| Film Tensile Strength at Break, MD | 26.0 MPa             | 3770 psi              | ISO 527-3                     |
| Film Tensile Strength at Break, TD | 20.0 MPa             | 2900 psi              | ISO 527-3                     |

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

| <small>Melting Point</small><br>Thermal Properties | 111 °C<br>Metric | 232 °F<br>English | ISO 11357-3<br>Comments |
|----------------------------------------------------|------------------|-------------------|-------------------------|
| Vicat Softening Point                              | 95.0 °C          | 203 °F            | ISO 306                 |

| Optical Properties | Metric | English | Comments   |
|--------------------|--------|---------|------------|
| Haze               | 7.0 %  | 7.0 %   | ASTM D1003 |
| Gloss              | 85 %   | 85 %    | ASTM D2457 |

| Processing Properties | Metric       | English      | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature      | 150 - 180 °C | 302 - 356 °F |          |

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