

## LyondellBasell Lupolen® 2003 H LDPE, Film Grade

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

### Material Notes:

FilmData was collected by ISO methods and originally provided by BASF. The Lupolen® product line is now produced by Basell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Lupolen-2003-H-LDPE-Film-Grade.php](http://www.lookpolymers.com/polymer_LyondellBasell-Lupolen-2003-H-LDPE-Film-Grade.php)

| Physical Properties                | Metric     | English                   | Comments |
|------------------------------------|------------|---------------------------|----------|
| Density                            | 0.919 g/cc | 0.0332 lb/in <sup>3</sup> |          |
| Water Absorption                   | 0.010 %    | 0.010 %                   |          |
| Moisture Absorption at Equilibrium | 0.010 %    | 0.010 %                   |          |

| Mechanical Properties   | Metric    | English  | Comments |
|-------------------------|-----------|----------|----------|
| Tensile Strength, Yield | 9.00 MPa  | 1310 psi |          |
| Elongation at Break     | >= 50 %   | >= 50 %  |          |
| Elongation at Yield     | 15.5 %    | 15.5 %   |          |
| Tensile Modulus         | 0.200 GPa | 29.0 ksi |          |

| Thermal Properties                          | Metric  | English   | Comments |
|---|---|---|----------|
| CTE, linear, Parallel to Flow               | 230 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 128 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ |          |
|   | @Temperature 20.0 $\text{Å}^\circ\text{C}$            | @Temperature 68.0 $\text{Å}^\circ\text{F}$              |          |
| Melting Point                               | 108 $\text{Å}^\circ\text{C}$                          | 226 $\text{Å}^\circ\text{F}$                            |          |
| Deflection Temperature at 0.46 MPa (66 psi) | 41.0 $\text{Å}^\circ\text{C}$                         | 106 $\text{Å}^\circ\text{F}$                            |          |
| Flammability, UL94                          | HB  | HB  |          |
|   | @Thickness 3.20 mm                                    | @Thickness 0.126 in                                     |          |
| Oxygen Index                                | 17 %  | 17 %  |          |

| Electrical Properties  | Metric             | English            | Comments |
|------------------------|--------------------|--------------------|----------|
| Electrical Resistivity | >= 1.00e+15 ohm-cm | >= 1.00e+15 ohm-cm |          |
| Surface Resistance     | 1.00e+14 ohm       | 1.00e+14 ohm       |          |
| Dielectric Constant    | 2.3                | 2.3                |          |

| Electrical Properties      | @Frequency 100 Hz<br>Metric | @Frequency 100 Hz<br>English | Comments |
|----------------------------|-----------------------------|------------------------------|----------|
|                            | 2.3                         | 2.3                          |          |
|                            | @Frequency 1e+6 Hz          | @Frequency 1e+6 Hz           |          |
| Dissipation Factor         | 0.00020                     | 0.00020                      |          |
|                            | @Frequency 100 Hz           | @Frequency 100 Hz            |          |
| Comparative Tracking Index | 600 V                       | 600 V                        |          |

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