

# Purell PE3420F

Low Density Polyethylene

LyondellBasell Industries

## Message:

Purell PE 3420 F is the latest generation of low density polyethylene with extremely high rigidity and outstanding temperature resistance. It is delivered in pellet form. The grade is used by our customers for packaging of pharmaceuticals in the small blow moulding market e.g. produced with Blow Fill Seal technology.

Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant Technical (P & AD) and Business contacts first.

To discuss a medical/pharmaceutical application please contact: your local Distributor or your local Basell contact.

| General Information                       |                                 |                   |                      |
|---|---------------------------------|-------------------|----------------------|
| Features                                  | Ethylene Oxide Sterilizable     |                   |                      |
|   | Good Chemical Resistance        |                   |                      |
|   | High Heat Resistance            |                   |                      |
|   | High Rigidity                   |                   |                      |
| Uses                                      | Bottles                         |                   |                      |
|   | Caps                            |                   |                      |
|   | Closures                        |                   |                      |
|   | Film                            |                   |                      |
|   | Medical/Healthcare Applications |                   |                      |
|   | Vials                           |                   |                      |
| Processing Method                         | Blow Molding                    |                   |                      |
|   | Blown Film                      |                   |                      |
|   | Extrusion Blow Molding          |                   |                      |
|   | Injection Blow Molding          |                   |                      |
| Physical                                  | Nominal Value                   | Unit              | Test Method          |
| Density                                   | 0.933                           | g/cm <sup>3</sup> | ISO 1183, ASTM D1505 |
| Apparent Density                          | > 0.50                          | g/cm <sup>3</sup> | ISO 60               |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.90                            | g/10 min          | ASTM D1238, ISO 1133 |
| Mechanical                                | Nominal Value                   | Unit              | Test Method          |
| Tensile Modulus                           | 520                             | MPa               | ISO 527-2            |
| Tensile Stress (Yield)                    | 15.0                            | MPa               | ISO 527-2            |
| Tensile Strain (Yield)                    | 11                              | %                 | ISO 527-2            |
| Thermal                                   | Nominal Value                   | Unit              | Test Method          |
| Vicat Softening Temperature               | 111                             | °C                | ISO 306/A50          |
| Melting Temperature (DSC)                 | 119                             | °C                | ISO 3146             |
| Extrusion                                 | Nominal Value                   | Unit              |                      |

Melt Temperature

170 to 220

°C

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#### Recommended distributors for this material

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