

## Technical Data Sheet

### Purell PE 3220D



Low Density Polyethylene

#### Product Description

Purell PE 3220D is a low density polyethylene with high rigidity and good chemical resistance. It is delivered in pellet form. The grade is used by our customers for packaging of pharmaceuticals in the small blow moulding market such as in blow fill seal technology.

|                          |                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | Blow-Fill-Seal Applications; Bottles and Vials; Caps & Closures (Healthcare); Healthcare Applications; Medical Devices; Medical Film |
| <b>Market</b>            | Flexible Packaging; Healthcare; Rigid Packaging                                                                                      |
| <b>Processing Method</b> | Blow, Fill, & Seal; Blown Film; Extrusion Blow Molding; Injection Molding                                                            |
| <b>Attribute</b>         | Ethylene Oxide Sterilisation; Good Chemical Resistance; High Rigidity                                                                |

| Typical Properties                 | Nominal Value | Units             | Test Method   |
|------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                    |               |                   |               |
| Melt Flow Rate, (190 °C/2.16 kg)   | 0.40          | g/10 min          | ISO 1133-1    |
| Density                            | 0.930         | g/cm <sup>3</sup> | ISO 1183-1    |
| Bulk Density                       | >0.500        | g/cm <sup>3</sup> | ISO 60        |
| <b>Mechanical</b>                  |               |                   |               |
| Tensile Modulus                    | 430           | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield            | 13.0          | MPa               | ISO 527-1, -2 |
| Tensile Strain at Yield            | 12.2          | %                 | ISO 527-1, -2 |
| <b>Hardness</b>                    |               |                   |               |
| Shore Hardness, (Shore D)          | 54            |                   | ISO 868       |
| <b>Thermal</b>                     |               |                   |               |
| Vicat Softening Temperature, (A50) | 110           | °C                | ISO 306       |
| Peak Melting Point                 | 117           | °C                | ISO 11357-3   |