

## ALCUDIA® Low density polyethylene



# LDPE ALCUDIA® 2221FG

ALCUDIA® 2221FG is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for thin blown film applications. This material offers easy processability and good balance of mechanical and optical properties. It contains slip (erucamide), antioxidant and antiblock additives.

### TYPICAL APPLICATIONS

- Thin pouches
- General packaging film

Recommended melt temperature range from 150 to 180°C. Processing conditions should be optimised for each production line.

| PROPERTIES                              | VALUE     | UNIT              | TEST METHOD |
|---|-----------|-------------------|-------------|
| <b>General</b>                          |           |                   |             |
| Melt Flow Rate (190°C, 2.16kg)          | 2.1       | g/10 min          | ISO 1133    |
| Density at 23°C                         | 922       | kg/m <sup>3</sup> | ISO 1183    |
| <b>Film (1)</b>                         |           |                   |             |
| Dart drop (F <sub>50</sub> )            | 100       | g                 | ISO 7765-1  |
| Tear resistance (Elmendorf) (MD/TD)     | 500 / 300 | cN                | ISO 6383-2  |
| Tensile stress at break (MD/TD)         | 26 / 20   | MPa               | ISO 527-3   |
| Elongation at break (MD/TD)             | 350 / 600 | %                 | ISO 527-3   |
| Coefficient of friction ( Dynamic)      | 0.1       | -                 | ISO 8295    |
| Gloss (45°)                             | 85        | -                 | ASTM D-2457 |
| Haze                                    | 7         | %                 | ASTM D-1003 |
| <b>Other</b>                            |           |                   |             |
| Vicat softening temperature (load 10 N) | 95        | °C                | ISO 306     |

(1) 40 µm thickness film, blow up ratio 2.5:1

ALCUDIA® 2221FG complies with the European Directives regarding materials intended for contact with foodstuffs. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

### STORAGE

ALCUDIA® 2221FG should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60°C and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes which may have a negative influence on the processability and the properties of the transformed product.

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