

# Alkatuff® 425

Linear Low Density Polyethylene  
Qenos Pty Ltd

## Message:

425 is a hexene copolymer linear low density polyethylene, designed for high quality cast film applications. 425 is formulated with stabilisation additives, but contains no other additives.

425 is intended for cast film applications such as stretch cling, where additional tackifier needs to be added, in order to produce suitable cling properties. 425 is not recommended for use in outdoor applications (especially applications where there may be prolonged exposure to sunlight, eg. agricultural films) without the addition of appropriate Hindered Amine based Light Stabilisers (HALS) .

425 is suitable for food contact applications and conforms to the requirements of the United States Food and Drug Administration CFR 21 177.1520, paragraph (c), item 3.1.

| General Information                       |                             |                   |             |
|---|-----------------------------|-------------------|-------------|
| Features                                  | Copolymer                   |                   |             |
|   | Compliance of Food Exposure |                   |             |
| Uses                                      | Films                       |                   |             |
|   | Stretch winding             |                   |             |
|   | cast film                   |                   |             |
| Agency Ratings                            | FDA 21 CFR 177.1520(c) 3.1  |                   |             |
| Forms                                     | Particle                    |                   |             |
| Processing Method                         | Film extrusion              |                   |             |
|   | cast film                   |                   |             |
| Physical                                  | Nominal Value               | Unit              | Test Method |
| Density                                   | 0.918                       | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.5                         | g/10 min          | ASTM D1238  |
| Films                                     | Nominal Value               | Unit              | Test Method |
| Film Thickness - Tested                   | 25                          | µm                |             |
| Tensile Strength                          |                             |                   | ASTM D882   |
| MD: Yield, 25 µm                          | 8.00                        | MPa               | ASTM D882   |
| TD: Yield, 25 µm                          | 9.00                        | MPa               | ASTM D882   |
| MD: Break, 25 µm                          | 24.0                        | MPa               | ASTM D882   |
| TD: Break, 25 µm                          | 14.0                        | MPa               | ASTM D882   |
| Tensile Elongation                        |                             |                   | ASTM D882   |
| MD: Break, 25 µm                          | 600                         | %                 | ASTM D882   |
| TD: Break, 25 µm                          | 750                         | %                 | ASTM D882   |
| Optical                                   | Nominal Value               | Unit              | Test Method |
| Gloss (25.0 µm, Cast Film)                | 93                          |                   | ASTM D2457  |
| Haze (25.0 µm, Cast Film)                 | 1.3                         | %                 | ASTM D1003  |

#### Additional Information

Film properties taken from cast film processed at 230°C.

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