

# OKITEN® 245 S

Low Density Polyethylene

DIOKI d.d.

## Message:

OKITEN® 245 S is low density polyethylene intended for extrusion of thin blown film having high slip properties.  
OKITEN® 245 S is characterized by excellent processability and thermal stability; the extruded film exhibits high transparency and very good mechanical properties.  
OKITEN® 245 S. is extruded in temperature range of 145°C to 170°C.  
Recommended film thickness: 0.025 mm to 0.060mm.

| General Information                       |                         |                   |             |
|---|-------------------------|-------------------|-------------|
| Additive                                  | Heat Stabilizer         |                   |             |
|   | Slip                    |                   |             |
| Features                                  | Food Contact Acceptable |                   |             |
|   | Good Thermal Stability  |                   |             |
|   | Heat Stabilized         |                   |             |
|   | High Clarity            |                   |             |
|   | High Gloss              |                   |             |
|   | Slip                    |                   |             |
| Uses                                      | Bags                    |                   |             |
|   | Blending                |                   |             |
|   | Film                    |                   |             |
|   | Food Packaging          |                   |             |
| Agency Ratings                            | EC 1907/2006 (REACH)    |                   |             |
|   | EU 2002/72/EC           |                   |             |
|   | EU 2004/19/EC           |                   |             |
|   | EU 94/62/EC             |                   |             |
| Appearance                                | Clear/Transparent       |                   |             |
| Forms                                     | Pellets                 |                   |             |
| Processing Method                         | Blown Film              |                   |             |
|   | Film Extrusion          |                   |             |
| Physical                                  | Nominal Value           | Unit              | Test Method |
| Density                                   | 0.924                   | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.3                     | g/10 min          | ISO 1133    |
| Hardness                                  | Nominal Value           | Unit              | Test Method |
| Shore Hardness (Shore D)                  | 47                      |                   | ISO 868     |

| Mechanical                               | Nominal Value        | Unit | Test Method |
|--|----------------------|------|-------------|
| Tensile Stress                           |                      |      | ISO 527-2   |
| Yield                                    | 11.0                 | MPa  |             |
| Break                                    | 14.0                 | MPa  |             |
| Tensile Strain (Break)                   | 540                  | %    | ISO 527-2   |
| Coefficient of Friction                  |                      |      | ISO 8295    |
| vs. Itself - Dynamic                     | < 0.11               |      |             |
| vs. Itself - Static                      | < 0.11               |      |             |
| Films                                    | Nominal Value        | Unit | Test Method |
| Film Thickness - Tested                  | 25                   | μm   |             |
| Film Thickness - Recommended / Available | 0.025 mm to 0.060 mm |      |             |
| Thermal                                  | Nominal Value        | Unit | Test Method |
| Vicat Softening Temperature              | 94.0                 | °C   | ISO 306/A   |
| Melting Temperature                      | 114                  | °C   | ISO 11357-3 |
| Optical                                  | Nominal Value        | Unit | Test Method |
| Haze (25.0 μm)                           | 4.0                  | %    | ISO 14782   |
| Extrusion                                | Nominal Value        | Unit |             |
| Melt Temperature                         | 145 to 170           | °C   |             |

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