

# TIPOLEN® FC 243-55

Low Density Polyethylene  
MOL Petrochemicals Co. Ltd.

Message:

TIPOLEN FC 243-55 is a film grade of low density polyethylene. The films made of this grade have excellent mechanical and optical properties. The grade contains slip and antiblocking agents.

Applications

TIPOLEN FC 243-55 is intended for shopping bags, packaging films, household films and small blow mouldings. Recommended film thickness is 0.04-0.08 mm.

TIPOLEN FC 243-55 is suitable for food contact. The product complies with Food Contact Regulations.

| General Information                       |                           |                   |             |
|---|---------------------------|-------------------|-------------|
| Additive                                  | Antiblock (800 ppm)       |                   |             |
|   | Slip (400 ppm)            |                   |             |
| Features                                  | Antiblocking              |                   |             |
|   | Food Contact Acceptable   |                   |             |
|   | Good Processability       |                   |             |
|   | Opticals                  |                   |             |
|   | Recyclable Material       |                   |             |
|   | Slip                      |                   |             |
| Uses                                      | Bags                      |                   |             |
|   | Blow Molding Applications |                   |             |
|   | Film                      |                   |             |
|   | Household Goods           |                   |             |
|   | Packaging                 |                   |             |
| Forms                                     | Pellets                   |                   |             |
| Processing Method                         | Blow Molding              |                   |             |
|   | Film Extrusion            |                   |             |
| Physical                                  | Nominal Value             | Unit              | Test Method |
| Density                                   | 0.922                     | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0                       | g/10 min          | ISO 1133    |
| Hardness                                  | Nominal Value             | Unit              | Test Method |
| Shore Hardness (Shore D)                  | 48                        |                   | ISO 868     |
| Films                                     | Nominal Value             | Unit              | Test Method |
| Film Thickness - Tested                   | 40                        | µm                |             |
| Film Thickness - Recommended / Available  | 0.04 to 0.08 mm           |                   |             |
| Tensile Strength                          | ISO 527-3                 |                   |             |

| MD : 40 μm, Blown Film               | 23.0          | MPa  |              |
|--------------------------------------|---------------|------|--------------|
| TD : 40 μm, Blown Film               | 19.0          | MPa  |              |
| Tensile Elongation                   |               |      | ISO 527-3    |
| MD : Break, 40 μm, Blown Film        | 220           | %    |              |
| TD : Break, 40 μm, Blown Film        | 550           | %    |              |
| Dart Drop Impact (40 μm, Blown Film) | 90            | g    | ISO 7765-1   |
| Thermal                              | Nominal Value | Unit | Test Method  |
| Vicat Softening Temperature          | 94.0          | °C   | ISO 306/A120 |
| Optical                              | Nominal Value | Unit | Test Method  |
| Haze (40.0 μm, Blown Film)           | 9.0           | %    | ISO 14782    |
| Extrusion                            | Nominal Value | Unit |              |
| Melt Temperature                     | 170 to 190    | °C   |              |

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