

**Technical Data Sheet****LFI 2125A**

Low Density Polyethylene

LFI2125A is a low-density polyethylene, with a medium level of anti-block and slip agent (Erucamide). This grade offers good optical properties, low energy consumption during processing, adequate COF level and excellent draw down. LFI2125A has been manufactured under SABTEC licensed technology.

**Applications**

Blown film extrusion, packaging film for food and goods, general lamination film

# Technical Data Sheet

## LFI 2125A

Low Density Polyethylene

| Typical Properties                          | Typical Value <sup>1</sup> | Units              | Test Method   |
|---------------------------------------------|----------------------------|--------------------|---------------|
| Physical                                    |                            |                    |               |
| Melt Flow Index(190°C/2.16 kg)              | 2.5                        | dg/ min            | ISO 1133      |
| Density <sup>2</sup>                        | 921                        | kg/m3              | ISO 1183(A)   |
| Mechanical <sup>3</sup>                     |                            |                    |               |
| Impact Strength                             | 23                         | KJ/m               | ASTM D4272    |
| Tear Strength(TD)                           | 25                         | KN/m               | ISO 6383-2    |
| Tear Strength(MD)                           | 70                         | KN/m               | ISO 6383-2    |
| Yield Stress(TD)                            | 11                         | MPa                | ISO 527-1,3   |
| Yield Stress(MD)                            | 13                         | MPa                | ISO 527-1,3   |
| Tensile Stress at Break(TD)                 | 19                         | MPa                | ISO 527-1,3   |
| Tensile Stress at Break(MD)                 | 30                         | MPa                | ISO 527-1,3   |
| Strain at Break (TD)                        | >500                       | %                  | ISO 527-1,3   |
| Strain at Break (MD)                        | >100                       | %                  | ISO 527-1,3   |
| Modulus of Elasticity (TD)                  | 180                        | MPa                | ISO 527-1,3   |
| Modulus of Elasticity (MD)                  | 190                        | MPa                | ISO 527-1,3   |
| Coefficient of Friction                     | 0.2                        | --                 | ASTM D1894    |
| Blocking                                    | <5                         | g                  | ASTM D3354    |
| Re-blocking                                 | 0                          | g                  | SABTEC method |
| Optical                                     |                            |                    |               |
| Haze                                        | 9                          | %                  | ASTM D1003 A  |
| Gloss(45°)                                  | 60                         | %                  | ASTM D2457    |
| Clarity                                     | 30                         | %                  | SABTEC method |
| Recommended Process Conditions <sup>4</sup> |                            |                    |               |
| Extruder Temperature profile: 170-190 °C    |                            | Blow up ratio: 2-3 |               |
| Extruder Barrel Temperature: 20-50 µm       |                            |                    |               |

1. Typical values: these are not to be construed as specifications.
2. The density parameter was determined on compression-molded specimens, which were prepared in accordance with procedure C of ASTM D4703, Annex A1.
3. Properties are based on 25 µm blown film produced at a melt temperature of 165°C and 3 BUR using 100% LFI2125A
4. Please note that, these processing conditions are recommended by producer only for 100% LFI2125A resin (not in the case of blending with any other compatible material), but because of the many particular factors which are outside our knowledge and control, and may affect the use of product, no warranty is given for the foregoing data.