

# SIBUR

## Technical Data Sheet PE LL20200 FE Linear Low-Density Polyethylene

### PRODUCT DESCRIPTION

LL20200 FE is a butene linear low-density polyethylene designed for the blown and cast film extrusion processes, offering balanced combination of physical and mechanical properties. Films produced from this resin have improved tensile strength, toughness, optical properties and high cling performance.

### TYPICAL APPLICATIONS

LL20200 FE is recommended for the production of mono- and multilayer blown films for general purpose applications, frozen food bags, lamination and coextruded films, carrier and garbage bags, industrial liners, hand and pallet stretch wrap films. It is suitable for blending with LDPE both in cast and blown film.

| Properties                                 |                | Method     | Typical values* | Units             |
|--|----------------|------------|-----------------|-------------------|
| <b>Resin properties</b>                    |                |            |                 |                   |
| Melt Flow Rate                             | 190 °C/2.16 kg | ISO 1133-1 | 2               | g/10 min          |
| Density                                    |                | ISO 1183   | 0.920           | g/cm <sup>3</sup> |
| <b>Properties measured on 38 µm film**</b> |                |            |                 |                   |
| Tensile Strength at Break                  | MD/TD          | ISO 527-1  | 36/30           | MPa               |
| Tensile Stress at Yield                    | MD/TD          | ISO 527-1  | 11/12           | MPa               |
| Elongation at Break                        | MD/TD          | ISO 527-1  | 900/1100        | %                 |
| Tear Strength                              | MD/TD          | ASTM D1922 | 150/380         | g/25 µm           |
| Dart Drop Impact Strength                  |                | ASTM 1709  | 130             | g                 |
| <b>Thermal</b>                             |                |            |                 |                   |
| Vicat Softening Temperature                | 10 N           | ISO 306    | 98              | °C                |

\*The values given are typical values measured on the product. These values should not be considered as specification.

\*\*Properties were measured on film extruded at a blow up ratio 2:1 with a melt temperature of 225 °C.

### REACH Statement

Polymers are exempt of REACH registration. However, their raw materials which mean monomers and relevant additives have been registered.

**PJSC «Sibur Holding» (and its subsidiaries)** is committed to fully respect REACH legislation and to use only REACH compliant raw materials.

### Safety