

# SABIC® LLDPE 220NT

LINEAR LOW DENSITY POLYETHYLENE  
REGION ASIA

## DESCRIPTION

SABIC® 220NT is an ethylene-butene copolymer designed for blown film & cast film application. 220NT contains no slip and no antiblock.

## TYPICAL APPLICATIONS

General purpose film & pouch, Agricultural film, stretch film for manual stretch etc.

## TYPICAL PROPERTY VALUES

Revision 20201209

| PROPERTIES                   | TYPICAL VALUES | UNITS             | TEST METHODS |
|------------------------------|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>    |                |                   |              |
| <b>Melt Flow Rate (MFR)</b>  |                |                   |              |
| at 190°C & 2.16 kg           | 2.4            | g/10 min          | ASTM D1238   |
| <b>Density at 23°C</b>       | 920            | kg/m <sup>3</sup> | ASTM D1505   |
| <b>MECHANICAL PROPERTIES</b> |                |                   |              |
| <b>Tensile test</b>          |                |                   |              |
| stress at yield, MD          | 10             | MPa               | ASTM D882    |
| stress at yield, TD          | 9              | MPa               | ASTM D882    |
| stress at break, MD          | 26             | MPa               | ASTM D882    |
| stress at break, TD          | 22             | MPa               | ASTM D882    |
| elongation at break, MD      | 580            | %                 | ASTM D882    |
| elongation at break, TD      | 800            | %                 | ASTM D882    |
| 1% secant modulus, MD        | 210            | MPa               | ASTM D882    |
| 1% secant modulus, TD        | 230            | MPa               | ASTM D882    |
| <b>OPTICAL PROPERTIES</b>    |                |                   |              |
| <b>Gloss</b>                 |                |                   |              |
| at 45°                       | 70             | -                 | ASTM D2457   |
| <b>Haze</b> <sup>(1)</sup>   | 11             | %                 | ASTM D1003   |

(1) Properties have been measured by producing 20 µ film with 2 BUR using 100% 220NT.

## PROCESSING CONDITIONS

Typical processing conditions for 220NT are:

Barrel temperature: 190 - 220°C

Blow up ratio: 2.0 – 3.0

## FOOD REGULATION

Please contact the local sales / Technical representative for details.



## STORAGE AND HANDLING

Polyethylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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