



# SABIC<sup>®</sup> LLDPE 726Q

LINEAR LOW DENSITY POLYETHYLENE

## DESCRIPTION

726Q Linear low density polyethylene

## TYPICAL PROPERTY VALUES

| PROPERTIES                         | TYPICAL VALUES | UNITS             | TEST METHODS |
|------------------------------------|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>          |                |                   |              |
| <b>Melt Flow Rate</b>              |                |                   |              |
| at 190 °C and 2.16 kg              | 0.7            | dg/min            | ISO 1133     |
| <b>Density</b>                     | 926            | kg/m <sup>3</sup> | ASTM D1505   |
| <b>OPTICAL PROPERTIES</b>          |                |                   |              |
| <b>Gloss (45°)</b>                 | 65             | %                 | ASTM D2457   |
| <b>Haze</b>                        | 14             | %                 | ASTM D1003   |
| <b>FILM PROPERTIES</b>             |                |                   |              |
| <b>Impact strength</b>             | 23             | kJ/m              | ASTM D4272   |
| <b>Tear strength TD</b>            | 130            | kN/m              | ISO 6383-2   |
| <b>Tear strength MD</b>            | 23             | kN/m              | ISO 6383-2   |
| <b>Puncture resistance</b>         | 440            | J/m               | SABIC method |
| <b>Tensile test film</b>           |                |                   |              |
| Modulus of elasticity MD           | 220            | MPa               | ISO 527-3    |
| Stress at break MD                 | 34             | MPa               | ISO 527-3    |
| Yield stress TD                    | 14             | MPa               | ISO 527-3    |
| Yield stress MD                    | 13             | MPa               | ISO 527-3    |
| Stress at break TD                 | 27             | MPa               | ISO 527-3    |
| Strain at break MD                 | 600            | %                 | ISO 527-3    |
| Modulus of elasticity TD           | 240            | MPa               | ISO 527-3    |
| Strain at break TD                 | 700            | %                 | ISO 527-3    |
| <b>Coefficient of friction</b>     | 0.1            | -                 | ASTM D1894   |
| <b>Blocking</b>                    | 10             | g                 | SABIC method |
| <b>Re-blocking</b>                 | <5             | g                 | SABIC method |
| <b>THERMAL PROPERTIES</b>          |                |                   |              |
| <b>Vicat Softening Temperature</b> |                |                   |              |
| at 10 N (VST/A)                    | 110            | °C                | ISO 306      |
| <b>DSC test</b>                    |                |                   |              |
| melting point                      | 124            | °C                | SABIC method |