



SABIC[®] LLDPE 726N

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC[®] LLDPE 726N is abutene linear low density polyethylene resin. This grade is typically designed to give blown films a relatively high stiffness for good machinability and a good overall balance of other performance properties, such as puncture resistance, impact strength and heat sealability. Typical applications for SABIC[®] LLDPE 726N are shipping sacks, produce bags, can liners and carrier bags. SABIC[®] LLDPE 726N has good optical properties when blended with a LDPE (15-85%). Film properties: Film of 50 µm and BUR=2 has been produced on Kiefel IBC with 130 kg/h. Die size 200 mm, die gap 2,7 mm.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|------------------------------------|----------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate | | | |
| at 190 °C and 2.16 kg | 0.7 | dg/min | ISO 1133 |
| Density | 925 | kg/m ³ | ASTM D1505 |
| OPTICAL PROPERTIES | | | |
| Gloss (45°) | 60 | % | ASTM D2457 |
| Haze | 12 | % | ASTM D1003 |
| FILM PROPERTIES | | | |
| Impact strength | 16 | kJ/m | ASTM D4272 |
| Tear strength TD | 130 | kN/m | ISO 6383-2 |
| Tear strength MD | 20 | kN/m | ISO 6383-2 |
| Puncture resistance | 650 | J/m | SABIC method |
| Tensile test film | | | |
| Modulus of elasticity TD | 240 | MPa | ISO 527-3 |
| Yield stress MD | 13 | MPa | ISO 527-3 |
| Modulus of elasticity MD | 220 | MPa | ISO 527-3 |
| Stress at break TD | 35 | MPa | ISO 527-3 |
| Strain at break MD | 650 | % | ISO 527-3 |
| Yield stress TD | 14 | MPa | ISO 527-3 |
| Strain at break TD | 850 | % | ISO 527-3 |
| Stress at break MD | 45 | MPa | ISO 527-3 |
| THERMAL PROPERTIES | | | |
| Vicat Softening Temperature | | | |
| at 10 N (VST/A) | 110 | °C | ISO 306 |
| DSC test | | | |
| melting point | 124 | °C | SABIC method |