# Braskem PE LD 5000A

### Low Density Polyethylene

#### Braskem

#### Message:

Description: LD5000A is a low density polyethylene (LDPE), with good mechanical properties and high flexibility. Contain no additives. Applications: Blow molded articles for general purpose and injection blow molding. Process: Blow molding

| Features   Food Contact Acceptable     Good Flexibility   Good Heat Seal     High ESCR (Stress Crack Resist.)   High ESCR (Stress Crack Resist.)     Uses   Blow Molding Applications     General Purpose   FDA 21 CFR 177.1520     Forms   Pellets     Processing Method   Blow Molding     Injection Blow Molding   Injection Blow Molding     Injection Blow Molding   Injecting Compresion Molded <td< th=""><th>General Information</th><th></th><th></th><th></th></td<> | General Information                   |                                  |          |                         |
|--|---------------------------------------|----------------------------------|----------|-------------------------|
| Good Heat Seal<br>High ESCR (Stress Crack Resist.)     Uses   Bow Molding Applications<br>General Purpose     Agency Ratings   FDA 21 CFR 177.1520     Forms   Pellets     Processing Method   Bow Molding<br>Injection Blow Molding<br>Injection Blow Molding     Physical   Nominal Value   Unit     Pensity   0.921   gran <sup>3</sup> Physical   Nominal Value   Unit     Mechanical   Nominal Value   Unit     Tersile Strength   1.4   gran (Partice)     Yield, Compression Molded   1.0   Mena     Termal   Nominal Value   Unit     Resk, Compression Molded   1.0   Mena     Termal   1.0   MPa     Termal   Nominal Value   Unit     Termal   Nominal Value   Mena     Termal   Nominal Value   Marce     Termal   Nominal Value   Mena     Termal   Nominal Value   Termal     Noting Termal   Nominal Value   Termal     Nominal Value   Termal   Stim Dripsis   | Features                              | Food Contact Acceptable          |          |                         |
| High ESCR (Stress Crack Resist.)     Uses   Blow Molding Applications<br>General Purpose     Agency Ratings   FDA 21 CFR 177.1520     Forms   Pellets     Processing Method   Blow Molding<br>Injection Blow Molding<br>Injection Blow Molding     Physical   Nominal Value     Posity   0.921     Methancial   Nominal Value     Mechanical   Nominal Value     Tensile Strength   I.4     Yield, Compression Molded   1.0     Strength   I.0     Yield, Compression Molded   1.0     Break, Compression Molded   1.0     Strength   I.0     Termal   Nominal Value     Machanical   Sino Data     Markater (MFR) (190°C/2.16)   1.2     Yield, Compression Molded   1.0     Sino Data   Markate     Yield, Compression Molded   1.0     Markate (MFR) (190°C/2.16)   1.0     Yield, Compression Molded   1.0     Sino Data   Markate     Yield, Compression Molded   1.0     Sino Data   Sino Data     Yield, Compression Molded   1.0<  |                                       | Good Flexibility                 |          |                         |
| Uses   Blow Molding Applications<br>General Purpose     Agency Ratings   FDA 21 CFR 177.1520     Forms   Pellets     Processing Method   Blow Molding<br>Injection Blow Molding     Injection Blow Molding<br>Injection Blow Molding   Value     Physical   Nominal Value   Unit     Pensity   0.921   g/Cm <sup>3</sup> Mechanical   Nominal Value   Unit     Mechanical   Nominal Value   Unit     Tensile Strength   1.4   g/10 min   ASTM D1238     Yield, Compression Molded   15.0   MPa   Tensile Strength     Yield, Compression Molded   15.0   MPa   Tensile Strength     Thermal   Nominal Value   Unit   Test Method     Kield Strening Temperature   94.0   °C   ASTM D1525 <sup>1</sup>  |                                       | Good Heat Seal                   |          |                         |
| General Purpose     Agency Ratings   FDA 21 CFR 177.1520     Forms   Pellets     Processing Method   Blow Molding<br>Injection Blow Molding     Physical   Nominal Value   Unit   Test Method     Density   0.921   g/Cm <sup>3</sup> ASTM D105     Methass-Flow Rate (MFR) (190°C/2.16<br>kg)   1.4   g/10min   ASTM D1238     Mechanical   Nominal Value   Unit   Test Method     Testie Strength   1.2   MPa   STM D638     Yield, Compression Molded   15.0   MPa   Levender     Termal   Nominal Value   Unit   Test Method     Yield, Compression Molded   15.0   MPa   Levender     Termal   Nominal Value   Unit   Test Method     Yield, Compression Molded   15.0   MPa   Levender     Termal   Nominal Value   Unit   Test Method     Yield, Compression Molded   16.0   MPa   Levender     Termal   Nominal Value   Vielt   ASTM D123.1     Yield, Compression Molded   16.0   MPa   Levender     Yield, Comprestion Molded<   |                                       | High ESCR (Stress Crack Resist.) |          |                         |
| General Purpose     Agency Ratings   FDA 21 CFR 177.1520     Forms   Pellets     Processing Method   Blow Molding<br>Injection Blow Molding     Physical   Nominal Value   Unit   Test Method     Density   0.921   g/Cm <sup>3</sup> ASTM D105     Methass-Flow Rate (MFR) (190°C/2.16<br>kg)   1.4   g/10min   ASTM D1238     Mechanical   Nominal Value   Unit   Test Method     Testie Strength   1.2   MPa   STM D638     Yield, Compression Molded   15.0   MPa   Levender     Termal   Nominal Value   Unit   Test Method     Yield, Compression Molded   15.0   MPa   Levender     Termal   Nominal Value   Unit   Test Method     Yield, Compression Molded   15.0   MPa   Levender     Termal   Nominal Value   Unit   Test Method     Yield, Compression Molded   16.0   MPa   Levender     Termal   Nominal Value   Vielt   ASTM D123.1     Yield, Compression Molded   16.0   MPa   Levender     Yield, Comprestion Molded<   |                                       |                                  |          |                         |
| Agency Ratings   FDA 21 CFR 177.1520     Forms   Pellets     Processing Method   Blow Molding<br>Injection Blow Molding     Physical   Nominal Value   Unit     Density   0.921   g/cm³   ASTM D1505     Methanization   1.4   g/10 min   ASTM D1238     Mechanical   Nominal Value   Unit   Test Method     Instrict Strength   1.2.0   MPa   STM D638     Yield, Compression Molded   15.0   MPa   STM D1525     Instrict Strength   15.0   MPa   STM D638     Thermal   Nominal Value   Unit   Test Method     Iso Strength   15.0   MPa   STM D638     Ital Compression Molded   15.0   MPa   STM D638     Ital Compression Molded   16.0   MPa   STM D638     Ital Compression Molded   16.0   MPa   STM D635     Ital Compression Molded   16.0   MPa   STM D635     Ital Compression Molded   16.0   MPa   STM D635     Ital Compression Molded   16.0   MPa   STM D6355     Ital Compressi   | Uses                                  | Blow Molding Applications        |          |                         |
| Forms   Pellets     Processing Method   Blow Molding<br>Injection Blow Molding     Physical   Nominal Value     Density   0.921     Methanical   Juninal Value     Mechanical   Nominal Value     Mechanical   Nominal Value     Yield, Compression Molded   1.4     Break, Compression Molded   12.0     Menant   MPa     Thermal   Nominal Value     Vicat Softening Temperature   94.0     *C   ASTM D1525 <sup>1</sup>   |                                       | General Purpose                  |          |                         |
| Forms   Pellets     Processing Method   Blow Molding<br>Injection Blow Molding     Physical   Nominal Value     Density   0.921     Methanical   Juninal Value     Mechanical   Nominal Value     Mechanical   Nominal Value     Yield, Compression Molded   1.4     Break, Compression Molded   12.0     Menant   MPa     Thermal   Nominal Value     Vicat Softening Temperature   94.0     *C   ASTM D1525 <sup>1</sup>   |                                       |                                  |          |                         |
| Processing MethodBlow Molding<br>Injection Blow MoldingPhysicalNominal ValueUnitTest MethodDensity0.921g/cm³ASTM D1505Meth Mass-Flow Rate (MFR) (190°C/2.16<br>kg)1.4g/10 minASTM D1238MechanicalNominal ValueUnitTest MethodMechanicalNominal ValueUnitTest MethodYield, Compression Molded12.0MPaTertThermalNominal ValueUnitTest MethodThermalNominal ValueUnitTest MethodVicat Softening Temperature94.0°CASTM D1525 <sup>1</sup> NOTEVicat Softening TemperatureSoftening TemperatureSoftening Temperature  | Agency Ratings                        | FDA 21 CFR 177.1520              |          |                         |
| Injection Blow MoldingPhysicalNominal ValueUnitTest MethodDensity0.921g/cm³ASTM D1505Melt Mass-Flow Rate (MFR) (190°C/2.16<br>kg)1.4g/10 minASTM D1238MethanicalNominal ValueUnitTest MethodTessile Strength1.4UnitTest MethodYield, Compression Molded12.0MPaSTM D638ThermalNominal ValueUnitTest MethodNominal ValueUnitTest MethodVicat Softening Temperature94.0°CASTM D1525 <sup>1</sup> NOTEVicatSitem D1525 <sup>1</sup>  | Forms                                 | Pellets                          |          |                         |
| PhysicalNominal ValueUnitTest MethodDensity0.921g/cm³ASTM D1505Melt Mass-Flow Rate (MFR) (190°C/2.16<br>kg)1.4g/10 minASTM D1238MechanicalNominal ValueUnitTest MethodMechanicalNominal ValueUnitTest MethodTensile Strength12.0MPaSTM D638Yield, Compression Molded15.0MPaTest MethodThermalNominal ValueUnitTest MethodYierd Softening Temperature94.0°CASTM D1525 <sup>1</sup> NOTENOTEStem D1525 <sup>1</sup> Stem D1525 <sup>1</sup>  | Processing Method                     | Blow Molding                     |          |                         |
| Density     0.921     g/cm³     ASTM D1505       Melt Mass-Flow Rate (MFR) (190°C/2.16<br>kg)     1.4     g/10 min     ASTM D1238       Mechanical     Nominal Value     Unit     Test Method       Tensile Strength     Vield, Compression Molded     12.0     MPa       Yield, Compression Molded     15.0     MPa     Vield       Termal     Nominal Value     Unit     Test Method       Vield, Compression Molded     15.0     MPa     Vield       Thermal     Nominal Value     Unit     Test Method       Vielt Softening Temperature     94.0     °C     ASTM D1525 <sup>1</sup>   |                                       | Injection Blow Molding           |          |                         |
| Density     0.921     g/cm³     ASTM D1505       Melt Mass-Flow Rate (MFR) (190°C/2.16<br>kg)     1.4     g/10 min     ASTM D1238       Mechanical     Nominal Value     Unit     Test Method       Tensile Strength     Vield, Compression Molded     12.0     MPa       Yield, Compression Molded     15.0     MPa     Vield       Termal     Nominal Value     Unit     Test Method       Vield, Compression Molded     15.0     MPa     Vield       Thermal     Nominal Value     Unit     Test Method       Vielt Softening Temperature     94.0     °C     ASTM D1525 <sup>1</sup>   |                                       |                                  |          |                         |
| Melt Mass-Flow Rate (MFR) (190°C/2.16   g/10 min   ASTM D1238     Mechanical   Nominal Value   Unit   Test Method     Tensile Strength   I.2.0   MPa   IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII  | Physical                              | Nominal Value                    | Unit     | Test Method             |
| kg) 1.4 g/10 min ASTM D1238<br>Mechanical Nominal Value Unit Test Method<br>Tersile Strength 12.0 MPa<br>MPa<br>Meak, Compression Molded 15.0 MPa<br>Thermal Nominal Value Unit Test Method<br>Nominal Value Softening Temperature 94.0 °C ASTM D1525 <sup>1</sup>   | Density                               | 0.921                            | g/cm³    | ASTM D1505              |
| MechanicalNominal ValueUnitTest MethodFensile StrengthASTM D638Yield, Compression Molded12.0MPaBreak, Compression Molded15.0MPaThermalNominal ValueUnitTest MethodVicat Softening Temperature94.0°CASTM D1525 <sup>1</sup> NOTENOTENOTENOTENOTE  | Melt Mass-Flow Rate (MFR) (190°C/2.16 | 5                                |          |                         |
| Tensile StrengthASTM D638Yield, Compression Molded12.0MPaBreak, Compression Molded15.0MPaThermalNominal ValueUnitTest MethodVicat Softening Temperature94.0°CASTM D1525 <sup>1</sup> NOTEVICEVICEVICEVICE  | kg)                                   | 1.4                              | g/10 min | ASTM D1238              |
| Yield, Compression Molded12.0MPaBreak, Compression Molded15.0MPaThermalNominal ValueUnitTest MethodVicat Softening Temperature94.0°CASTM D1525 <sup>1</sup> NOTEVICEVICEVICEVICE   | Mechanical                            | Nominal Value                    | Unit     | Test Method             |
| Break, Compression Molded15.0MPaThermalNominal ValueUnitTest MethodVicat Softening Temperature94.0°CASTM D1525 <sup>1</sup> NOTEVICEVICEVICEVICE   | Tensile Strength                      |                                  |          | ASTM D638               |
| ThermalNominal ValueUnitTest MethodVicat Softening Temperature94.0°CASTM D1525 <sup>1</sup> NOTE   | Yield, Compression Molded             | 12.0                             | MPa      |                         |
| Vicat Softening Temperature 94.0 °C ASTM D1525 <sup>1</sup> NOTE   | Break, Compression Molded             | 15.0                             | MPa      |                         |
| NOTE   | Thermal                               | Nominal Value                    | Unit     | Test Method             |
|  | Vicat Softening Temperature           | 94.0                             | °C       | ASTM D1525 <sup>1</sup> |
| 1. Loading 1 (10 N)  | NOTE                                  |                                  |          |                         |
|  | 1.                                    | Loading 1 (10 N)                 |          |                         |

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