

# Alathon® L5045

High Density (MMW) Polyethylene  
LyondellBasell Industries

Message:

ALATHON L5045 is a medium molecular weight high density copolymer for use in blown film extrusion applications. Typical applications include millinery bags, coextrusions and plastic netting.

| General Information                       |                             |                   |             |
|---|-----------------------------|-------------------|-------------|
| Features                                  | Copolymer                   |                   |             |
|   | Compliance of Food Exposure |                   |             |
|   | Medium molecular weight     |                   |             |
| Uses                                      | Films                       |                   |             |
|   | Bags                        |                   |             |
|   | Web                         |                   |             |
| Agency Ratings                            | FDA 21 CFR 177.1520         |                   |             |
| Forms                                     | Particle                    |                   |             |
| Processing Method                         | Blow film                   |                   |             |
|   | Co-extrusion molding        |                   |             |
| Physical                                  | Nominal Value               | Unit              | Test Method |
| Density                                   | 0.950                       | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.45                        | g/10 min          | ASTM D1238  |
| Films                                     | Nominal Value               | Unit              | Test Method |
| secant modulus                            |                             |                   | ASTM D882   |
| MD  | 758                         | MPa               | ASTM D882   |
| TD  | 1000                        | MPa               | ASTM D882   |
| Tensile Strength                          |                             |                   | ASTM D882   |
| MD: Yield                                 | 23.4                        | MPa               | ASTM D882   |
| TD: Yield                                 | 26.9                        | MPa               | ASTM D882   |
| MD: Fracture                              | 48.3                        | MPa               | ASTM D882   |
| TD: Fracture                              | 28.3                        | MPa               | ASTM D882   |
| Tensile Elongation                        |                             |                   | ASTM D882   |
| MD: Fracture                              | 530                         | %                 | ASTM D882   |
| TD: Fracture                              | 970                         | %                 | ASTM D882   |
| Elmendorf Tear Strength                   |                             |                   | ASTM D1922  |
| MD  | 35                          | g                 | ASTM D1922  |
| TD  | 1200                        | g                 | ASTM D1922  |
| Extrusion                                 | Nominal Value               | Unit              |             |

|                        |           |    |
|------------------------|-----------|----|
| Melt Temperature       | 199 - 210 | °C |
| Extrusion instructions |           |    |

Typical Extrusion Conditions2.0 mil Blown FilmBlow-up Ratio: 2.5:1Die Gap: 60 mil

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