# TOTAL Polyethylene MDPE HL 323

Medium Density Polyethylene

TOTAL Refining & Chemicals

## Message:

TOTAL Polyethylene HL 323 is a Medium Density Polyethylene material. It is available in North America for coextrusion or extrusion.
Important attributes of TOTAL Polyethylene HL 323 are:
REACH Compliant
Good Sealability
Good Stiffness
High Strength
Impact Resistant
Typical applications include:
Bags/Liners
Film
Packaging
Wrap

| General Information | |
|---|---|
| Features | Good Heat Seal<br>Good Impact Resistance<br>Good Stiffness<br>High Tensile Strength<br>Medium Molecular Weight<br>Puncture Resistant |
| Uses | Bags<br>Film<br>Food Packaging<br>Heavy-duty Bags<br>Shrink Wrap |
| Agency Ratings | EC 1907/2006 (REACH) |
| Processing Method | Coextrusion<br>Extrusion |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.937 | g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) | | | ASTM D1238 |
| 190°C/2.16 kg | 0.23 | g/10 min | |
| 190°C/21.6 kg | 20 | g/10 min | |
| **Films** | **Nominal Value** | **Unit** | **Test Method** |
| Film Thickness - Tested | 25 | µm | |
| Secant Modulus | | | ASTM D882A |
| 1% Secant, MD : 25 µm, Blown Film | 441 | MPa | |

| | | | |
|---|---|---|---|
| 1% Secant, TD : 25 µm, Blown Film | 586 | MPa | |
| Tensile Strength | | | ASTM D882A |
| MD : Yield,25 µm, Blown Film | 12.4 | MPa | |
| TD : Yield,25 µm, Blown Film | 19.3 | MPa | |
| MD : Break, 25 µm,Blown Film | 57.2 | MPa | |
| TD : Break, 25 µm,Blown Film | 36.5 | MPa | |
| Tensile Elongation | | | ASTM D882A |
| MD : Break, 25 µm,Blown Film | 500 | % | |
| TD : Break, 25 µm,Blown Film | 900 | % | |
| Dart Drop Impact (25 µm, Blown Film) | < 50 | g | ASTM D1709A |
| Elmendorf Tear Strength | | | ASTM D1922 |
| MD : 25 µm, Blown Film | 18 | g | |
| TD : 25 µm, Blown Film | 1400 | g | |
| Water Vapor Transmission Rate (25 µm, Blown Film) | 12 | g/m²/24 hr | ASTM F1249 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Peak Melting Temperature | 126 | °C | ASTM D3417 |
| **Extrusion** | **Nominal Value** | **Unit** | |
| Melt Temperature | 193 to 216 | °C | |



## Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China