TOTAL PETROCHEMICALS



MDPE HL 323

| Resin Properties ⁽¹⁾ Melt Flow Index, g/10 min 190 °C/2.16 kg 190 °C/21.6 kg (HLMI) Density, g/cm ³ Melting Point, °F | Typical <u>Value</u> 0.23 20.0 0.937 259 | ASTM Method D1238 D792 D3417 | Polyethylene Medium Molecular Weight Medium Density Film Resin Characteristics |
|--|--|--|---|
| Mechanical Properties ⁽¹⁾⁽²⁾ Dart Impact, g Elmendorf Tear, g (MD/TD) Tensile Str. @ Yield, psi (MD/TD) Tensile Str. @ Break, psi (MD/TD) Elongation at Break, % (MD/TD) 1% Secant Modulus, kpsi (MD/TD) WVTR(3), g/100in2/day | < 50 18 / 1350 1800 / 2800 8300 / 5300 500 / 900 64 / 85 0.8 | D1709, A D1922 D882, A D882, A D882, A D882, A E 96/66 | Excellent balance of stiffness and impact strength Good puncture resistance Excellent compatibility with LDPE and LLDPE Good tensile strength Good heat sealing characteristics |
| Processing Recommendation Extrusion Melt Temperature, °F | 380 – 420 | | Applications Specialty merchandise bags Mailing envelopes Heavy-duty shipping sacks Pallet shrink films Fresh cut produce packaging Coextrusion |
| Data developed under laboratory condimaxima or minima. Film was produced at 1.0 mil with a 2.5 Water Vapor Transmission Rate | MDPE HL 323 04/2010 | | |

0 TOTAL

1201 Louisiana Street Suite 1800 Houston, TX 77002

P.O. Box 674411 Houston, TX 77267-4411

Phone: (713) 483-5241 Fax: (713) 483-5252

1-800-344-3462

All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of these products must be guided by the user's own methods for selection of proper formulation. TOTAL PETROCHEMICALS USA, INC. disclaims any responsibility for misuse or misapplication of its products. TOTAL PETROCHEMICALS USA, INC. MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TOTAL PETROCHEMICALS USA, INC. liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.