

Total MDPE HL 323 Medium Density Polyethylene, Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , MDPE , Medium Density Polyethylene (MDPE), Film Grade

Material Notes:

Medium molecular weight, medium density film resin
 Characteristics: Excellent balance of stiffness and impact strength
 Good puncture resistance
 Excellent compatibility with LDPE and LLDPE
 Good tensile strength
 Good heat sealing characteristics
 Applications: Specialty Merchandise bags
 Mailing envelopes
 Heavy-duty shipping sacks
 Pallet shrink films
 Fresh cut produce packaging
 Coextrusion Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-MDPE-HL-323-Medium-Density-Polyethylene-Film-Resin.php

| Physical Properties | Metric | English | Comments |
|--------------------------|--------------------------------------|--------------------------------------|-------------|
| Density | 0.937 g/cc | 0.0339 lb/in ³ | ISO 1183 |
| Water Vapor Transmission | 12.4 g/m ² /day | 0.800 g/100 in ² /day | ASTM E96/66 |
| Melt Flow | 0.23 g/10 min | 0.23 g/10 min | ASTM D1238 |
| | @Load 2.16 kg, Temperature 190 °C | @Load 4.76 lb, Temperature 374 °F | |
| | 20 g/10 min | 20 g/10 min | ASTM D1238 |
| | @Load 21.6 kg, Temperature 190 °C | @Load 47.6 lb, Temperature 374 °F | |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|-----------|-------------|--------------|
| Film Tensile Strength at Yield, MD | 12.4 MPa | 1800 psi | ASTM D882, A |
| Film Tensile Strength at Yield, TD | 19.3 MPa | 2800 psi | ASTM D882, A |
| Film Elongation at Break, MD | 500 % | 500 % | ASTM D882, A |
| Film Elongation at Break, TD | 900 % | 900 % | ASTM D882, A |
| Elmendorf Tear Strength MD | 18 g | 18 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 1350 g | 1350 g | ASTM D1922 |
| Dart Drop Test | <= 50.0 g | <= 0.110 lb | ASTM D1709,A |
| Film Tensile Strength at Break, MD | 57.2 MPa | 8300 psi | ASTM D882, A |
| Film Tensile Strength at Break, TD | 36.5 MPa | 5300 psi | ASTM D882, A |
| 1% Secant Modulus, MD | 441 MPa | 64000 psi | ASTM D882, A |
| 1% Secant Modulus, TD | 586 MPa | 85000 psi | ASTM D882, A |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|------------|
| Melting Point | 126 °C | 259 °F | ASTM D3417 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|-----------|
| Melt Temperature | 193 - 216 °C | 380 - 420 °F | Extrusion |

| Descriptive Properties | Value | Comments |
|------------------------|-------------|---------------------------------|
| Process | Film | |
| Region | US & Canada | Bamberger Polymers Distribution |

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