SOLMAX

# Technical Data Sheet

## HDPE Series, 1.50 mm Black, Smooth

| PROPERTY | TEST METHOD | FREQUENCY (1) | UNIT | 1037703 |
|---|---|---|---|---|
| **SPECIFICATIONS** | | | | |
| Thickness (min. avg.) | ASTM D5199 | Every roll | mm | 1.50 |
| Thickness (min.) | ASTM D5199 | Every roll | mm | 1.35 |
| Resin Density | ASTM D1505 | 1/Batch | g/cc | > 0.932 |
| Melt Index - 190/2.16 (max.) | ASTM D1238 | 1/Batch | g/10 min | 1.0 |
| Sheet Density | ASTM D792 | Every 10 rolls | g/cc | ≥ 0.940 |
| Carbon Black Content | ASTM D4218 | Every 2 rolls | % | 2.0 - 3.0 |
| Carbon Black Dispersion | ASTM D5596 | Every 10 rolls | Category | Cat. 1 / Cat. 2 |
| OIT - standard (avg.) | ASTM D3895 | 1/Batch | min | 100 |
| Tensile Properties (min. avg) ( 2) | ASTM D6693 | Every 2 rolls | | |
| Strength at Yield | | | kN/m | 23 |
| Elongation at Yield | | | % | 13 |
| Strength at Break | | | kN/m | 43 |
| Elongation at Break | | | % | 700 |
| Tear Resistance (min. avg.) | ASTM D1004 | Every 5 rolls | N | 187 |
| Puncture Resistance (min. avg.) | ASTM D4833 | Every 5 rolls | N | 534 |
| Dimensional Stability | ASTM D1204 | Certified | % | ± 2 |
| Stress Crack Resistance (SP-NCTL) | ASTM D5397 | 1/Batch | hr | 500 |
| Oven Aging - % retained after 90 days | ASTM D5721 | Per formulation | | |
| HP OIT (min. avg.) | ASTM D5885 | | % | 80 |
| UV Res. - % retained after 1600 hr | ASTM D7238 | Per formulation | | |
| HP-OIT (min. avg.) | ASTM D5885 | | % | 50 |
| Low Temperature Brittleness | ASTM D746 | Certified | °C | - 77 |
| **SUPPLY SPECIFICATIONS(Roll dimensions may vary ±1%)** | | | | |
| Roll Dimension - Width | - | | m | 6.80 |
| Roll Dimension - Length | - | | m | 158.5 |
| Area (Surface/Roll) | - | | m² | 1077.80 |

## NOTES

1. Tes ng frequency based on standard roll dimensions and one batch is approximately180,000 lbs (or one railcar).
2. Machine Direc on (MD) and Cross Machine Direc on (XMD or TD) average values should be on the basis of 5 specimens each direc on.

* All values are nominal test results, except when specified as minimum or maximum.
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