

| PRODUCT - HAND ROLL | | | STANDARD | STANDARD | STANDARD | STANDARD |
|-----------------------------------|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| PROPERTIES | METHOD | UNIT OF MEASURE | | | | |
| PRODUCTION | | CAST COEXTRUDED | CAST COEXTRUDED | CAST COEXTRUDED | CAST COEXTRUDED | CAST COEXTRUDED |
| POLYMER | | | LLDPE | LLDPE | LLDPE | LLDPE |
| WIDTH | | mm | 450 - 500 | 450 - 500 | 450 - 500 | 450 - 500 |
| THICKNESS | | µm | 18 | 19 | 20 | 23 |
| IMPACT STRENGTH | ASTM D1709 | gr. | 58 | 60 | 65 | 70 |
| TENSILE STRENGTH | | | | | | |
| LONGITUDINAL | ASTM D882 | N/sq.mm | 32 | 33 | 34 | 36 |
| TRANSVERSAL | ASTM D882 | N/sq.mm | 21 | 22 | 23 | 24 |
| ELONGATION AT BREAK | | | | | | |
| LONGITUDINAL | ASTM D882 | % | 275 | 280 | 300 | 320 |
| TRANSVERSAL | ASTM D882 | % | 580 | 600 | 630 | 640 |
| PRESTRETCH USE LIMIT UP TO | PRACTICE TEST | % | 70 - 75 | 80 - 85 | 85 - 90 | 90 - 100 |
| YIELD STRENGTH | | | | | | |
| LONGITUDINAL | ASTM D882 | N/sq.mm | 9 | 9,5 | 10 | 10,5 |
| TRANSVERSAL | ASTM D882 | N/sq.mm | 9 | 9,3 | 9,5 | 10 |
| TEAR STRENGTH (ELMENDORF) | | | | | | |
| LONGITUDINAL | ASTM D1922 | N/mm | 33 | 35 | 37 | 42 |
| TRANSVERSAL | ASTM D1922 | N/mm | 105 | 110 | 115 | 125 |
| PUNCTURE RESISTANCE | OUR OWN | | 1320 | 1350 | 1380 | 1450 |

For colored films value reduction of 10%
For films with additives value reduction of 5%

| Dimensional Characteristics | Range | Test Method |
|-----------------------------|------------|--------------------|
| Width | ± 0, -5 mm | ISO 4592 |
| Thickness (average) | ± 5,0 % | ISO 4591 |
| Core internal diameter | ± 2 mm | Direct measurement |

All other figures are typical values with tolerances 10% .

E.P.M. Stretch Films are ecologically non pollutant, absolutely non - toxic, chlorine free and can be 100% recycled

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