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| Tensile Properties of Thin Plastic Sheeting (ASTM D882) |
| University of Illinois at Urbana-ChampaignGeosynthetics Laboratory |
| Tests Performed by: | Material:Manufacturer: | Nominal thickness(T):Nominal width(W):Initial grip separation(L):Sample Dimensions: |
| Date: |
| 　 |
| Rate of grip separation: 500 mm/min | Sample | Load at 100% (N)P100 | Load at break(N)Pbreak | Increase in length(mm)ΔL | Tensile Break Strength(kPa)$$\frac{P\_{b}}{W\_{o}×T\_{o}}$$ | Elongation at break(%)$$\frac{ΔL}{L\_{o}}$$ | Secant Modulus @ 100%(kPa)$$\frac{P\_{100}}{\frac{W\_{o}×T\_{o}}{1}}$$ | Secant Modulus @ break(kPa)$$\frac{P\_{break}}{\frac{W\_{o}×T\_{o}}{ΔL/L\_{o}}}$$ |
| Machine Direction (MD) | 1 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| 2 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| 3 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| 4 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| 5 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Transverse Direction(TD) | 1 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| 2 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| 3 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| 4 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| 5 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |