

# TRYCITE™ 8003

Polystyrene Film  
The Dow Chemical Company

Message:

TRYCITE™ 8003 Polystyrene Film is a matte finish, translucent, oriented polystyrene film for use in lamination applications. Available thicknesses of 1.0, 1.15, 1.25, 1.5, 2.0, 2.5, and 3.0 mil.

| General Information                      |                                                                        |                    |                 |
|------------------------------------------|------------------------------------------------------------------------|--------------------|-----------------|
| Forms                                    | Film                                                                   |                    |                 |
| Films                                    | Nominal Value                                                          | Unit               | Test Method     |
| Film Thickness - Recommended / Available | 1.0; 1.15; 1.25; 1.5; 2.0; 2.5; 3.0 mil (25; 29; 32; 38; 51; 64; 76 μ) |                    |                 |
| Secant Modulus                           |                                                                        |                    | ASTM D882       |
| 1% Secant, MD                            | 2480                                                                   | MPa                |                 |
| 1% Secant, TD                            | 2550                                                                   | MPa                |                 |
| Tensile Strength                         |                                                                        |                    | ASTM D882       |
| MD : Yield                               | 55.8                                                                   | MPa                |                 |
| TD : Yield                               | 55.8                                                                   | MPa                |                 |
| Tensile Elongation                       |                                                                        |                    | ASTM D882       |
| MD : Break                               | 70                                                                     | %                  |                 |
| TD : Break                               | 90                                                                     | %                  |                 |
| Dart Drop Impact                         | 200                                                                    | g                  | ASTM D1709      |
| Elmendorf Tear Strength - TD (25 μm)     | 7.0                                                                    | g                  | ASTM D1922      |
| Shrink Tension                           |                                                                        |                    | Internal Method |
| MD : 135°C                               | 1.21                                                                   | MPa                |                 |
| TD : 135°C                               | 0.896                                                                  | MPa                |                 |
| Yield                                    |                                                                        |                    | ASTM D4321      |
| 25.4 μm                                  | 38.0                                                                   | m <sup>2</sup> /kg |                 |
| 29.2 μm                                  | 33.0                                                                   | m <sup>2</sup> /kg |                 |
| 31.8 μm                                  | 30.0                                                                   | m <sup>2</sup> /kg |                 |
| 38.1 μm                                  | 25.0                                                                   | m <sup>2</sup> /kg |                 |
| 50.8 μm                                  | 18.9                                                                   | m <sup>2</sup> /kg |                 |
| 63.5 μm                                  | 15.2                                                                   | m <sup>2</sup> /kg |                 |
| 76.2 μm                                  | 12.6                                                                   | m <sup>2</sup> /kg |                 |
| Optical                                  | Nominal Value                                                          | Unit               | Test Method     |
| Gloss (60°)                              | 20                                                                     |                    | ASTM D2457      |
| Haze                                     | 56                                                                     | %                  | ASTM D1003      |

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