

# Mirathane™ M80

Thermoplastic Polyurethane Elastomer (Polyether)

Miracll Chemicals Co., Ltd.

Message:

Mirathane™ M80 is a Thermoplastic Polyurethane Elastomer (Polyether) (TPU-Polyether) product. It is available in Asia Pacific. Applications of Mirathane™ M80 include hose/tubing, additive/masterbatch, agricultural, coating applications and film.

| General Information                       |                           |                   |             |
|---|---------------------------|-------------------|-------------|
| Uses                                      | Compounding               |                   |             |
|   | Fabric Coatings           |                   |             |
|   | Film                      |                   |             |
|   | Hose                      |                   |             |
|   | Molded Ear Tags           |                   |             |
|   | Sheet                     |                   |             |
|   | Tubing                    |                   |             |
|   | Wire & Cable Applications |                   |             |
|   |                           |                   |             |
| Physical                                  | Nominal Value             | Unit              | Test Method |
| Specific Gravity                          | 1.10                      | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                                  | Nominal Value             | Unit              | Test Method |
| Durometer Hardness (Shore A)              | 82                        |                   | ASTM D2240  |
| Mechanical                                | Nominal Value             | Unit              | Test Method |
| Taber Abrasion Resistance                 | 10.0                      | mg                | ASTM D1044  |
| Elastomers                                | Nominal Value             | Unit              | Test Method |
| Tensile Stress                            |                           |                   | ASTM D412   |
| 100% Strain                               | 3.00                      | MPa               |             |
| 300% Strain                               | 8.00                      | MPa               |             |
| Tensile Strength (Yield)                  | 23.0                      | MPa               | ASTM D412   |
| Tensile Elongation (Break)                | 600                       | %                 | ASTM D412   |
| Tear Strength                             | 70.0                      | kN/m              | ASTM D624   |
| Compression Set                           |                           |                   | ASTM D395   |
| 23°C, 72 hr                               | 25                        | %                 |             |
| 70°C, 22 hr                               | 65                        | %                 |             |
| Thermal                                   | Nominal Value             | Unit              | Test Method |
| Glass Transition Temperature <sup>1</sup> | -46.0                     | °C                | ASTM D3417  |
| NOTE                                      |                           |                   |             |

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