

Mirathane™ E175D

Thermoplastic Polyurethane Elastomer (Polyester)

Miracll Chemicals Co., Ltd.

Message:

Mirathane™ E175D is a Thermoplastic Polyurethane Elastomer (Polyester) (TPU-Polyester) product. It is available in Asia Pacific. Applications of Mirathane™ E175D include coating applications, engineering/industrial parts, hose/tubing, additive/masterbatch and automotive.

Characteristics include:

- Chemical Resistant
- Good Flexibility
- Puncture Resistant
- Wear Resistant

| General Information | |
|---------------------|-----------------------------|
| Features | Good Abrasion Resistance |
| | Kink Resistant |
| | Low Temperature Flexibility |
| | Oil Resistant |
| | Puncture Resistant |
| | Solvent Resistant |
| Uses | Automotive Applications |
| | Belts/Belt Repair |
| | Coating Applications |
| | Compounding |
| | Fabric Coatings |
| | Film |
| | Footwear |
| | Hose |
| | Overmolding |
| | Seals |
| | Sheet |
| | Tubing |
| | Wheels |
| | Wire & Cable Applications |

| Physical | Nominal Value | Unit | Test Method |
|------------------------------|---------------|-------------------|-------------|
| Specific Gravity | 1.22 | g/cm ³ | ASTM D792 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 73 to 75 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Abrasion Loss | 40.0 | mm ³ | DIN 53516 |
| Elastomers | Nominal Value | Unit | Test Method |

| | | | |
|-------------------------------------------|---------------|------|-------------|
| Tensile Stress | | | ASTM D412 |
| 100% Strain | 30.0 to 35.0 | MPa | |
| 300% Strain | 43.0 | MPa | |
| Tensile Strength (Yield) | 41.0 to 50.0 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 250 to 300 | % | ASTM D412 |
| Tear Strength | 240 to 260 | kN/m | ASTM D624 |
| Thermal | Nominal Value | Unit | Test Method |
| Glass Transition Temperature ¹ | -20.0 | °C | ASTM D3417 |
| NOTE | | | |
| 1. | 10°C/min | | |

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