

# Sarlink® TPE ME-1390N-01

Thermoplastic Elastomer

Teknor Apex Company

## Message:

Sarlink® TPE ME-1390N-01 is a thermoplastic elastomer (TPE) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is extrusion or injection molding.

Typical application areas include:

Automotive Industry

engineering/industrial accessories

## General Information

|                   |  |
|-------------------|--|
| Uses              | Blow molding applications<br>Washer<br>Weather-resistant sealing strip<br>Application in Automobile Field<br>Car interior parts<br>Automotive exterior parts<br>Car exterior decoration<br>General |
| Appearance        | Natural color  |
| Forms             | Particle   |
| Processing Method | Extrusion<br>Injection molding   |

| Physical                                  | Nominal Value | Unit              | Test Method |
|---|---------------|-------------------|-------------|
| Specific Gravity                          | 0.898         | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 9.0           | g/10 min          | ASTM D1238  |
| Hardness                                  | Nominal Value | Unit              | Test Method |
| Durometer Hardness                        |               |                   | ASTM D2240  |
| Shaw A                                    | 92            |                   | ASTM D2240  |
| Shaw A, 5 seconds                         | 90            |                   | ASTM D2240  |
| Elastomers                                | Nominal Value | Unit              | Test Method |
| Tensile Stress                            |               |                   | ASTM D412   |
| Transverse flow: 100% strain              | 2.69          | MPa               | ASTM D412   |
| Flow: 100% strain                         | 3.59          | MPa               | ASTM D412   |
| Tensile Strength                          |               |                   | ASTM D412   |
| Transverse flow: Fracture                 | 13.8          | MPa               | ASTM D412   |
| Flow: Fracture                            | 7.58          | MPa               | ASTM D412   |
| Tensile Elongation                        |               |                   | ASTM D412   |
| Transverse flow: Fracture                 | 800           | %                 | ASTM D412   |

|                             |      |      |           |
|-----------------------------|------|------|-----------|
| Flow: Fracture              | 650  | %    | ASTM D412 |
| Tear Strength - Across Flow | 43.8 | kN/m | ASTM D624 |
| Compression Set             |      |      | ASTM D395 |
| 23°C, 22 hr                 | 35   | %    | ASTM D395 |
| 70°C, 22 hr                 | 49   | %    | ASTM D395 |
| 125°C, 70 hr                | 87   | %    | ASTM D395 |

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Rear Temperature       | 199 - 210     | °C   |
| Middle Temperature     | 204 - 216     | °C   |
| Front Temperature      | 210 - 221     | °C   |
| Nozzle Temperature     | 216 - 227     | °C   |
| Processing (Melt) Temp | 216 - 227     | °C   |
| Mold Temperature       | 35.0 - 65.6   | °C   |
| Injection Pressure     | 1.38 - 6.89   | MPa  |
| Injection Rate         | Fast          |      |
| Back Pressure          | 0.172 - 0.862 | MPa  |
| Screw Speed            | 50 - 120      | rpm  |
| Cushion                | 3.81 - 25.4   | mm   |

#### Injection instructions

无需干燥.但如果湿度过大,则将粒料在150°F (65°C)的温度下干燥2-4小时.

| Extrusion             | Nominal Value | Unit |
|-----------------------|---------------|------|
| Cylinder Zone 1 Temp. | 193 - 204     | °C   |
| Cylinder Zone 2 Temp. | 199 - 210     | °C   |
| Cylinder Zone 3 Temp. | 204 - 216     | °C   |
| Cylinder Zone 5 Temp. | 210 - 221     | °C   |
| Die Temperature       | 216 - 227     | °C   |

#### Extrusion instructions

螺杆转速30 - 100 rpm

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#### Recommended distributors for this material

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