

# Sarlink® TPE EE-2272B BLK

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink® TPE EE-2272B BLK 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. Sarlink® The main characteristics of TPE EE-2272B BLK are: sunlight resistance.

Typical application areas include:

Automotive Industry  
engineering/industrial accessories

| General Information                       |                                 |                   |             |
|-------------------------------------------|---------------------------------|-------------------|-------------|
| Features                                  | Sunlight Resistant              |                   |             |
|                                           | High specific gravity           |                   |             |
|                                           | High density                    |                   |             |
|                                           | Light stabilization             |                   |             |
|                                           | Low liquidity                   |                   |             |
|                                           | Fill                            |                   |             |
|                                           | Medium hardness                 |                   |             |
|                                           | UV absorption                   |                   |             |
| Uses                                      | Washer                          |                   |             |
|                                           | Weather-resistant sealing strip |                   |             |
|                                           | Application in Automobile Field |                   |             |
|                                           | Car interior parts              |                   |             |
|                                           | Automotive exterior parts       |                   |             |
|                                           | Car exterior decoration         |                   |             |
| Appearance                                | Black                           |                   |             |
| Forms                                     | Particle                        |                   |             |
| Processing Method                         | Extrusion                       |                   |             |
|                                           | Injection molding               |                   |             |
| Physical                                  | Nominal Value                   | Unit              | Test Method |
| Density                                   | 1.18                            | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 0.40                            | g/10 min          | ASTM D1238  |
| Hardness                                  | Nominal Value                   | Unit              | Test Method |
| Durometer Hardness                        |                                 |                   | ISO 868     |
| Shore A, 1 second, injection molding      | 75                              |                   | ISO 868     |
| Shore A, 5 seconds, injection molding     | 72                              |                   | ISO 868     |
| Shore A, 15 seconds, injection molding    | 70                              |                   | ISO 868     |

| Elastomers                                            | Nominal Value | Unit | Test Method |
|-------------------------------------------------------|---------------|------|-------------|
| Tensile Stress <sup>1</sup>                           |               |      | ISO 37      |
| Transverse flow: 100% strain                          | 2.11          | MPa  | ISO 37      |
| Flow: 100% strain                                     | 2.90          | MPa  | ISO 37      |
| Tensile Stress <sup>2</sup>                           |               |      | ISO 37      |
| Transverse flow: Fracture                             | 8.70          | MPa  | ISO 37      |
| Flow: Fracture                                        | 5.80          | MPa  | ISO 37      |
| Tensile Elongation <sup>3</sup>                       |               |      | ISO 37      |
| Transverse flow: Fracture                             | 790           | %    | ISO 37      |
| Flow: Fracture                                        | 620           | %    | ISO 37      |
| Tear Strength <sup>4</sup>                            |               |      | ISO 34-1    |
| Transverse flow                                       | 28            | kN/m | ISO 34-1    |
| Flow                                                  | 31            | kN/m | ISO 34-1    |
| Compression Set <sup>5</sup>                          |               |      | ISO 815     |
| 23°C, 22 hr                                           | 20            | %    | ISO 815     |
| 70°C, 22 hr                                           | 44            | %    | ISO 815     |
| 90°C, 70 hr                                           | 3.9           | %    | ISO 815     |
| 125°C, 70 hr                                          | 81            | %    | ISO 815     |
| Aging                                                 | Nominal Value | Unit | Test Method |
| Change in Tensile Strength in Air <sup>6</sup>        |               |      | ISO 188     |
| Transverse flow: 110°C, 1008 hr                       | -4.0          | %    | ISO 188     |
| Flow: 110°C, 1008 hr                                  | -5.9          | %    | ISO 188     |
| Transverse flow: 100% strain 110°C, 1008 hr           | 18            | %    | ISO 188     |
| Flow: 100% strain 110°C, 1008 hr                      | 16            | %    | ISO 188     |
| Transverse flow: 125°C, 168 hr                        | -2.3          | %    | ISO 188     |
| Flow: 125°C, 168 hr                                   | -8.6          | %    | ISO 188     |
| Transverse flow: 100% strain 125°C, 168 hr            | 11            | %    | ISO 188     |
| Flow: 100% strain 125°C, 168 hr                       | 12            | %    | ISO 188     |
| Change in Tensile Strain at Break in Air <sup>7</sup> |               |      | ISO 188     |
| Transverse flow: 110°C, 1008 hr                       | -1.3          | %    | ISO 188     |
| Flow: 110°C, 1008 hr                                  | -5.2          | %    | ISO 188     |
| Transverse flow: 125°C, 168 hr                        | -2.8          | %    | ISO 188     |
| Flow: 125°C, 168 hr                                   | -11           | %    | ISO 188     |
| Change in Shore Hardness in Air                       |               |      | ISO 188     |
| Support a, 110°C, 1008 hr <sup>8</sup>                | 3.4           |      | ISO 188     |
| Support a, 110°C, 1008 hr <sup>9</sup>                | 4.9           |      | ISO 188     |
| Support a, 110°C, 1008 hr <sup>10</sup>               | 5.0           |      | ISO 188     |
| Support a, 125°C, 168 hr <sup>11</sup>                | 2.4           |      | ISO 188     |
| Support a, 125°C, 168 hr <sup>12</sup>                | 3.6           |      | ISO 188     |
| Support a, 125°C, 168 hr <sup>13</sup>                | 3.9           |      | ISO 188     |
| Fill Analysis                                         | Nominal Value | Unit | Test Method |

| Apparent Viscosity (200°C, 206 sec <sup>-1</sup> ) | 277                                                     | Pa·s | ASTM D3835 |
|----------------------------------------------------|---------------------------------------------------------|------|------------|
| 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                                   |                                                         |      |            |
| NOTE                                               |                                                         |      |            |
| 1.                                                 | Type 1, 510mm/min                                       |      |            |
| 2.                                                 | Type 1, 510mm/min                                       |      |            |
| 3.                                                 | Type 1, 510mm/min                                       |      |            |
| 4.                                                 | B method, right angle specimen (without cut), 510mm/min |      |            |
| 5.                                                 | Type a                                                  |      |            |
| 6.                                                 | Type 1                                                  |      |            |
| 7.                                                 | Type 1                                                  |      |            |
| 8.                                                 | 1 sec                                                   |      |            |
| 9.                                                 | 5 sec                                                   |      |            |
| 10.                                                | 15 sec                                                  |      |            |
| 11.                                                | 1 sec                                                   |      |            |
| 12.                                                | 5 sec                                                   |      |            |
| 13.                                                | 15 sec                                                  |      |            |

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