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TEKNOR APEX

# Sarlink® TPE ME-2245B

## Teknor Apex Company - Thermoplastic Elastomer

### General Information

**Product Description**

The Sarlink ME-2200 Series is a general purpose thermoplastic elastomer series, available in BLK, designed for automotive exterior molded applications. Sarlink ME-2245B is a medium hardness, low density, UV stabilized grade suitable for injection molding.

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • Bondability<br>• Chemical Resistant<br>• Good Adhesion<br>• Good Color Stability<br>• Good Mold Release | • Good Moldability<br>• Good Processability<br>• Light Stabilized<br>• Low Density<br>• Low Flow | • Low Specific Gravity<br>• Lubricated<br>• Medium Hardness |
| Uses | • Automotive Applications<br>• Automotive Exterior Parts | • Automotive Exterior Trim<br>• Rubber Replacement | |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Black | | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

### ASTM & ISO Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.925 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 0.50 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress [2] | | | ISO 37 |
| Across Flow : 100% Strain | 148 | psi | |
| Flow : 100% Strain | 229 | psi | |
| Tensile Stress [2] | | | ISO 37 |
| Across Flow : Break | 986 | psi | |
| Flow : Break | 479 | psi | |
| Tensile Elongation [2] | | | ISO 37 |
| Across Flow : Break | 840 | % | |
| Flow : Break | 540 | % | |
| Tear Strength [3] | | | ISO 34-1 |
| Across Flow | 100 | lbf/in | |
| Flow | 123 | lbf/in | |
| Compression Set [4] | | | ISO 815 |
| 73°F, 22 hr | 14 | % | |
| 158°F, 22 hr | 34 | % | |
| 194°F, 70 hr | 57 | % | |
| 257°F, 70 hr | 75 | % | |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Shore Hardness | | | ISO 868 |
| Shore A, 1 sec, Injection Molded | 49 | | |
| Shore A, 5 sec, Injection Molded | 46 | | |
| Shore A, 15 sec, Injection Molded | 44 | | |

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## Teknor Apex Company - Thermoplastic Elastomer

| Aging | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Change in Tensile Strength in Air [5] | | | ISO 188 |
| Across Flow : 230°F, 1008 hr | 34 | % | |
| Flow : 230°F, 1008 hr | 67 | % | |
| Across Flow : 100% Strain 230°F, 1008 hr | 5.9 | % | |
| Flow : 100% Strain 230°F, 1008 hr | 5.7 | % | |
| Across Flow : 257°F, 168 hr | 31 | % | |
| Flow : 257°F, 168 hr | 52 | % | |
| Across Flow : 100% Strain 257°F, 168 hr | 2.9 | % | |
| Flow : 100% Strain 257°F, 168 hr | 0.0 | % | |
| Change in Tensile Strain at Break in Air [5] | | | ISO 188 |
| Across Flow : 230°F, 1008 hr | 7.0 | % | |
| Flow : 230°F, 1008 hr | 33 | % | |
| Across Flow : 257°F, 168 hr | 7.7 | % | |
| Flow : 257°F, 168 hr | 40 | % | |
| Change in Shore Hardness in Air | | | ISO 188 |
| Shore A, 230°F, 1008 hr [6] | 1.6 | | |
| Shore A, 230°F, 1008 hr [7] | 1.1 | | |
| Shore A, 230°F, 1008 hr [8] | 1.5 | | |
| Shore A, 257°F, 168 hr [6] | 0.60 | | |
| Shore A, 257°F, 168 hr [7] | 0.60 | | |
| Shore A, 257°F, 168 hr [8] | 0.90 | | |

| Fill Analysis | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Apparent Viscosity (392°F, 206 sec^-1) | 234 | Pa·s | ASTM D3835 |

| Additional Information | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Xenon Weatherometer | | | SAE J2527 |
| Delta E - 1250 kJ | 0.600 | | |
| Delta E - 2500 kJ | 0.350 | | |

## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Rear Temperature | 390 to 410 | °F |
| Middle Temperature | 400 to 420 | °F |
| Front Temperature | 410 to 430 | °F |
| Nozzle Temperature | 420 to 440 | °F |
| Processing (Melt) Temp | 420 to 440 | °F |
| Mold Temperature | 60 to 90 | °F |
| Injection Pressure | 200 to 1000 | psi |
| Injection Rate | Fast | |
| Back Pressure | 25.0 to 125 | psi |
| Screw Speed | 50 to 120 | rpm |

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## Teknor Apex Company - Thermoplastic Elastomer

| Injection | Nominal Value | Unit |
|---|---|---|
| Cushion | 0.150 to 1.00 | in |

**Injection Notes**

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

### Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Type 1, 20 in/min

[3] Method Ba, Angle (Unnicked), 20 in/min

[4] Type A

[5] Type 1

[6] 1 sec

[7] 5 sec

[8] 15 sec