+135-3858-6433 (GuangDong)
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TEKNOR APEX

# Sarlink® TPE EE-1185B (PRELIMINARY DATA)

## Teknor Apex Company - Thermoplastic Elastomer

## General Information

### Product Description

The Sarlink EE-1100 Series is a general purpose thermoplastic elastomer series, available in BLK, designed for demanding automotive extrusion applications including backbone for window encapsulation. Sarlink EE-1185B is a higher hardness, high density grade with low CLTE, good chemical resistance and elastic performance.

### General

| | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • Balanced Stiffness/Toughness<br>• Chemical Resistant<br>• Good Adhesion | • Good Processability<br>• High Density<br>• High Hardness | • High Specific Gravity<br>• Resilient |
| Uses | • Automotive Applications<br>• Automotive Exterior Parts | • Automotive Window Encapsulation<br>• Profiles | • Rubber Replacement |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Black | | |
| Forms | • Pellets | | |
| Processing Method | • Coextrusion | • Extrusion | |

## ASTM & ISO Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.14 | g/cm³ | ISO 1183 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress | | | ISO 37 |
| Across Flow : 100% Strain | 466 | psi | |
| Flow : 100% Strain | 856 | psi | |
| Tensile Strength | | | ISO 37 |
| Across Flow : Break | 1450 | psi | |
| Flow : Break | 1150 | psi | |
| Tensile Elongation | | | ISO 37 |
| Across Flow : Break | 720 | % | |
| Flow : Break | 500 | % | |
| Tear Strength [2] | 257 | lbf/in | ISO 34 |
| Compression Set [3] (158°F, 22 hr) | 43 | % | ISO 815 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore A, 5 sec, Injection Molded) | 86 | | ISO 868 |
| **Aging** | **Nominal Value** | **Unit** | **Test Method** |
| Change in Tensile Strength in Air - Across Flow | | | ISO 188 |
| 257°F, 168 hr | -1.7 | % | |
| 100% Strain 257°F, 168 hr | 13 | % | |
| Change in Tensile Strain at Break in Air - Across Flow | | | ISO 188 |
| 257°F, 168 hr | -2.3 | % | |
| Change in Shore Hardness in Air | | | ISO 188 |
| Shore A, 257°F, 168 hr | 0.30 | | |
| **Fill Analysis** | **Nominal Value** | **Unit** | **Test Method** |
| Apparent Viscosity (392°F, 206 sec^-1) | 244 | Pa·s | ISO 11443 |

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### Processing Information

| Extrusion | Nominal Value | Unit |
|---|---|---|
| Cylinder Zone 1 Temp. | 340 to 380 | °F |
| Cylinder Zone 2 Temp. | 350 to 390 | °F |
| Cylinder Zone 3 Temp. | 360 to 400 | °F |
| Cylinder Zone 4 Temp. | 360 to 400 | °F |
| Cylinder Zone 5 Temp. | 370 to 400 | °F |
| Die Temperature | 370 to 400 | °F |

**Extrusion Notes**

Screw Speed: 30 to 100 rpm; predrying is suggested to enhance bonding for coextrusion.

### Notes

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

[2] 20 in/min

[3] Type A