+135-3858-6433 (GuangDong)
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TEKNOR APEX

# Sarlink® TPE EE-2365B (PRELIMINARY DATA)

## Teknor Apex Company - Thermoplastic Elastomer

## General Information

### Product Description

The Sarlink EE-2300 Series is a high performance thermoplastic elastomer series, available in BLK, designed for demanding automotive low gloss extrusion applications including functional lip seals. Sarlink EE-2365B is a medium hardness, high density, filled, UV stabilized grade with exceptional tensile strength, superior surface aesthetics, good chemical resistance and good elasticity.

### General

| | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • Chemical Resistant<br>• Good Adhesion<br>• Good Flexibility<br>• Good Processability<br>• Good Scratch Resistance | • High Density<br>• High Melt Stability<br>• High Specific Gravity<br>• High Tensile Strength<br>• Low Gloss | • Medium Hardness<br>• Outstanding Surface Finish<br>• UV Resistant |
| Uses | • Automotive Applications<br>• Automotive Exterior Parts | • Profiles<br>• Rubber Replacement | • Seals<br>• Weatherstripping |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Black | | |
| Forms | • Pellets | | |
| Processing Method | • Coextrusion | • Extrusion | |

## ASTM & ISO Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.12 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/5.0 kg) | 4.0 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress | | | ISO 37 |
| Across Flow : 100% Strain | 305 | psi | |
| Flow : 100% Strain | 377 | psi | |
| Tensile Strength | | | ISO 37 |
| Across Flow : Break | 1100 | psi | |
| Flow : Break | 980 | psi | |
| Tensile Elongation | | | ISO 37 |
| Across Flow : Break | 690 | % | |
| Flow : Break | 540 | % | |
| Tear Strength | | | ISO 34-1 |
| Across Flow | 150 | lbf/in | |
| Flow | 160 | lbf/in | |
| Compression Set | | | ISO 815 |
| 73°F, 22 hr | 20 | % | |
| 158°F, 22 hr | 36 | % | |
| 194°F, 70 hr | 59 | % | |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore A, 5 sec, Injection Molded) | 61 | | ISO 868 |
| **Aging** | **Nominal Value** | **Unit** | **Test Method** |
| Change in Tensile Strength in Air - Across Flow | | | ISO 188 |
| 230°F, 1008 hr | -13 | % | |
| 257°F, 168 hr | -7.7 | % | |

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| Aging | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Change in Tensile Strain at Break in Air - Across Flow | | | ISO 188 |
| 230°F, 1008 hr | -15 | % | |
| 257°F, 168 hr | -8.0 | % | |
| Change in Shore Hardness in Air | | | ISO 188 |
| Shore A, 230°F, 1008 hr | 4.1 | | |
| Shore A, 257°F, 168 hr | 4.0 | | |

| Fill Analysis | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Apparent Viscosity (392°F, 206 sec^-1) | 250 | Pa·s | ASTM D3835 |

## 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

### Notes

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