# Sarlink® TPE ME-2665B BLK (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

## Message:

Sarlink ME-2665B BLK XRD is a low density high flow TPE designed for automotive exterior applications including window encapsulation. This is a UV stabilized grade suitable for injection molding.

| General Information | | | |
|---|---|---|---|
| Features | Low Specific Gravity<br>Sunlight Resistant<br>Low density<br>Light stabilization<br>High liquidity<br>Fill<br>Medium hardness<br>UV absorption | | |
| Uses | Automotive Window Encapsulation<br>Application in Automobile Field<br>Automotive exterior parts | | |
| Appearance | Black | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 0.939 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 8.0 | g/10 min | ASTM D1238 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness | | | ISO 868 |
| Shore A, 1 second, injection molding | 67 | | ISO 868 |
| Shore A, 5 seconds, injection molding | 62 | | ISO 868 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress [1] | | | ISO 37 |
| Transverse flow: 100% strain | 1.60 | MPa | ISO 37 |
| Flow: 100% strain | 1.89 | MPa | ISO 37 |
| Tensile Stress [2] | | | ISO 37 |
| Transverse flow: Fracture | 9.80 | MPa | ISO 37 |

| | | | |
|---|---|---|---|
| Flow: Fracture | 7.90 | MPa | ISO 37 |
| Tensile Elongation [3] | | | ISO 37 |
| Transverse flow: Fracture | 890 | % | ISO 37 |
| Flow: Fracture | 770 | % | ISO 37 |
| Tear Strength [4] | | | ISO 34-1 |
| Transverse flow | 26 | kN/m | ISO 34-1 |
| Flow | 27 | kN/m | ISO 34-1 |
| Compression Set [5] | | | ISO 815 |
| 23°C, 22 hr | 23 | % | ISO 815 |
| 70°C, 22 hr | 35 | % | ISO 815 |
| 90°C, 70 hr | 56 | % | ISO 815 |

| Aging | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Change in Tensile Strength in Air - Across Flow [6] | | | ISO 188 |
| 110°C, 1008 hr | 0.0 | % | ISO 188 |
| 100% strain 110°C, 1008 hr | 13 | % | ISO 188 |
| 125°C, 168 hr | 3.1 | % | ISO 188 |
| 100% strain 125°C, 168 hr | 11 | % | ISO 188 |
| Changes in tensile stress upon fracture in air-Transverse flow [7] | | | ISO 188 |
| 110°C, 1008 hr | 3.2 | % | ISO 188 |
| 125°C, 168 hr | 5.3 | % | ISO 188 |
| Change in Shore Hardness in Air [8] | | | ISO 188 |
| Support a, 110°C, 1008 hr | 3.4 | | ISO 188 |
| Support a, 125°C, 168 hr | 3.6 | | ISO 188 |

| Fill Analysis | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Apparent Viscosity (200°C, 206 sec^-1) | 129 | Pa·s | ASTM D3835 |

## Legal statement



| Injection | Nominal Value | Unit |
|---|---|---|
| Rear Temperature | 170 - 190 | °C |
| Middle Temperature | 175 - 195 | °C |
| Front Temperature | 180 - 205 | °C |
| Nozzle Temperature | 180 - 205 | °C |
| Processing (Melt) Temp | 180 - 205 | °C |
| Mold Temperature | 15.0 - 40.0 | °C |
| Injection Pressure | 1.38 - 6.89 | MPa |
| Injection Rate | Moderate-Fast | |

| | | |
|---|---|---|
| Back Pressure | 0.172 - 0.862 | MPa |
| Screw Speed | 50 - 100 | rpm |
| Cushion | 3.81 - 25.4 | mm |

| Injection instructions |
|---|
| Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 176°F (80°C). |

| 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. | 5 sec |



## Recommended distributors for this material

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