

Sarlink® TPE ME-2555B (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

General Information

Product Description

The Sarlink ME-2500 Series are super high flow, high density, high performance thermoplastic elastomers designed for demanding exterior automotive molding applications, including window encapsulation. Sarlink ME-2555B is a high density, medium hardness injection molding grade with excellent UV resistance and adhesion to glass with primer.

General

| | | | |
|-------------------|---|--|---|
| Material Status | • Preliminary Data | | |
| Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Features | • Chemical Resistant • Filled • Good Adhesion • Good Flexibility | • Good Processability • Good Surface Finish • Good Toughness • High Density | • High Flow • High Specific Gravity • Medium Hardness • UV Resistant |
| Uses | • Automotive Applications • Automotive Exterior Parts | • Automotive Window Encapsulation • Rubber Replacement | |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Black | | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|----------|-------------|
| Specific Gravity | 1.10 | | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 4.0 | g/10 min | ASTM D1238 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ISO 37 |
| Across Flow : 100% Strain, 73°F | 203 | psi | |
| Flow : 100% Strain, 73°F | 247 | psi | |
| Tensile Stress | | | ISO 37 |
| Across Flow : Break | 943 | psi | |
| Flow : Break | 856 | psi | |
| Tensile Elongation | | | ISO 37 |
| Across Flow : Break | 850 | % | |
| Flow : Break | 780 | % | |
| Tear Strength | | | ISO 34-1 |
| Across Flow | 130 | lbf/in | |
| Flow | 130 | lbf/in | |
| Compression Set | | | ISO 815 |
| 73°F, 22 hr | 19 | % | |
| 158°F, 22 hr | 39 | % | |
| 194°F, 70 hr | 71 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness | | | ISO 868 |
| Shore A, 1 sec | 60 | | |
| Shore A, 5 sec | 55 | | |

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| Aging | Nominal Value | Unit | Test Method |
|--|---------------|------|-------------|
| Change in Tensile Strength in Air - Across Flow | | | ISO 188 |
| 230°F, 1008 hr | 6.4 | % | |
| 257°F, 168 hr | 9.2 | % | |
| Change in Tensile Strain at Break in Air - Across Flow | | | ISO 188 |
| 230°F, 1008 hr | 2.2 | % | |
| 257°F, 168 hr | 11 | % | |
| Change in Shore Hardness in Air | | | ISO 188 |
| Shore A, 230°F, 1008 hr | 0.50 | | |
| Shore A, 257°F, 168 hr | 4.0 | | |

| Fill Analysis | Nominal Value | Unit | Test Method |
|--|---------------|------|-------------|
| Apparent Viscosity (392°F, 206 sec ⁻¹) | 127 | Pa·s | ASTM D3835 |

Additional Information

Adhesion to glass with primer

Legal Statement

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Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Rear Temperature | 338 to 374 | °F |
| Middle Temperature | 347 to 383 | °F |
| Front Temperature | 356 to 401 | °F |
| Nozzle Temperature | 356 to 401 | °F |
| Processing (Melt) Temp | 356 to 401 | °F |
| Mold Temperature | 59 to 104 | °F |
| Injection Pressure | 200 to 1000 | psi |
| Injection Rate | Moderate-Fast | |
| Back Pressure | 25.0 to 125 | psi |
| Screw Speed | 50 to 100 | rpm |
| 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 176°F (80°C).

Notes

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

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