



# Sarlink® TPV 15755B XRD3

Teknor Apex Company - Thermoplastic Vulcanizate

## General Information

### Product Description

The Sarlink TPV 15700B series are highly engineered extrusion-grade thermoplastic vulcanizates with outstanding UV stability designed for demanding automotive interior and exterior sealing applications, including glass run channels, waistbelts, weather strips, seals and other profiles. Sarlink TPV 15755B is a medium hardness, low density, high performance grade with low fogging and excellent color retention and elastic properties.

### General

|                   |                                                  |                                                 |                                    |
|-------------------|--------------------------------------------------|-------------------------------------------------|------------------------------------|
| Material Status   | • Preliminary Data                               |                                                 |                                    |
| Availability      | • Africa & Middle East<br>• Asia Pacific         | • Europe<br>• Latin America                     | • North America                    |
| Additive          | • UV Stabilizer                                  |                                                 |                                    |
| Features          | • Chemical Resistant<br>• Good Processability    | • High Heat Resistance<br>• Low Compression Set | • Low Density<br>• Medium Hardness |
| Uses              | • Automotive Applications<br>• Belts/Belt Repair | • Profiles<br>• Rubber Replacement              | • Seals<br>• Weatherstripping      |
| RoHS Compliance   | • RoHS Compliant                                 |                                                 |                                    |
| Appearance        | • Black                                          |                                                 |                                    |
| Forms             | • Pellets                                        |                                                 |                                    |
| Processing Method | • Extrusion                                      | • Injection Molding                             | • Profile Extrusion                |

## ASTM & ISO Properties <sup>1</sup>

| Physical                                             | Nominal Value | Unit              | Test Method |
|------------------------------------------------------|---------------|-------------------|-------------|
| Density                                              | 0.934         | g/cm <sup>3</sup> | ISO 1183    |
| Elastomers                                           | Nominal Value | Unit              | Test Method |
| Tensile Stress                                       |               |                   | ISO 37      |
| Across Flow : 100% Strain                            | 247           | psi               |             |
| Flow : 100% Strain                                   | 384           | psi               |             |
| Tensile Stress                                       |               |                   | ISO 37      |
| Across Flow : Break                                  | 805           | psi               |             |
| Flow : Break                                         | 580           | psi               |             |
| Tensile Elongation                                   |               |                   | ISO 37      |
| Across Flow : Break                                  | 470           | %                 |             |
| Flow : Break                                         | 240           | %                 |             |
| Tear Strength - Across Flow <sup>2</sup>             | 87.9          | lbf/in            | ISO 34-1    |
| Compression Set                                      |               |                   | ISO 815     |
| 73°F, 22 hr                                          | 15            | %                 |             |
| 158°F, 22 hr                                         | 21            | %                 |             |
| 257°F, 70 hr                                         | 40            | %                 |             |
| Hardness                                             | Nominal Value | Unit              | Test Method |
| Shore Hardness (Shore A, 5 sec, Injection Molded)    | 60            |                   | ISO 868     |
| Aging                                                | Nominal Value | Unit              | Test Method |
| Change in Volume (257°F, 70 hr, in IRM 903 Oil)      | 94            | %                 | ISO 1817    |
| Additional Information                               | Nominal Value | Unit              | Test Method |
| Apparent Shear Viscosity - Capillary @ 206/s (392°F) | 350           | Pa·s              | ASTM D3835  |

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| Processing Information       |               |      |
|------------------------------|---------------|------|
| Injection                    | Nominal Value | Unit |
| Drying Temperature           | 180           | °F   |
| Drying Time                  | 3.0           | hr   |
| Rear Temperature             | 350 to 420    | °F   |
| Middle Temperature           | 350 to 420    | °F   |
| Front Temperature            | 350 to 420    | °F   |
| Nozzle Temperature           | 370 to 430    | °F   |
| Processing (Melt) Temp       | 360 to 430    | °F   |
| Mold Temperature             | 50 to 150     | °F   |
| Back Pressure                | 10.0 to 150   | psi  |
| Screw Speed                  | 100 to 200    | rpm  |
| Screw L/D Ratio              | 20.0:1.0      |      |
| Extrusion                    | Nominal Value | Unit |
| Drying Temperature           | 180           | °F   |
| Drying Time                  | 3.0           | hr   |
| Cylinder Zone 1 Temp.        | 360 to 400    | °F   |
| Cylinder Zone 2 Temp.        | 360 to 400    | °F   |
| Cylinder Zone 3 Temp.        | 370 to 410    | °F   |
| Cylinder Zone 4 Temp.        | 370 to 410    | °F   |
| Melt Temperature             | 380 to 420    | °F   |
| Die Temperature              | 380 to 420    | °F   |
| Take-Off Roll                | 70 to 120     | °F   |
| Extrusion Notes              |               |      |
| Screen Pack: 20 to 60 mesh   |               |      |
| Screw: 3:1 Compression Ratio |               |      |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Method Ba, Angle (Unnicked)