



# Sarlink® TPV 6175N

Teknor Apex Company - Thermoplastic Vulcanizate

## General Information

### Product Description

Sarlink® TPV 6100 series are engineered materials designed for consumer, automotive, and industrial applications requiring superior colorability and elastic performance. Sarlink® TPV 6175N is a medium hardness, low density, multi-purpose thermoplastic vulcanizate that does not require pre-drying and can be processed by injection molding.

### 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 Colorability<br>• Good Flexibility | • Good Flow<br>• Good Processability<br>• Low Density<br>• Low Specific Gravity | • Medium Hardness<br>• Resilient |
| Uses              | • Automotive Applications<br>• Consumer Applications                                 | • Industrial Applications<br>• Rubber Replacement                               | • Soft Touch Applications        |
| RoHS Compliance   | • RoHS Compliant                                                                     |                                                                                 |                                  |
| Appearance        | • Natural Color                                                                      | • Opaque                                                                        |                                  |
| Forms             | • Pellets                                                                            |                                                                                 |                                  |
| Processing Method | • Injection Molding                                                                  |                                                                                 |                                  |

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

| Physical                    | Nominal Value | Unit              | Test Method |
|-----------------------------|---------------|-------------------|-------------|
| Density / Specific Gravity  | 0.926         |                   | ASTM D792   |
| Density                     | 0.926         | g/cm <sup>3</sup> | ISO 1183    |
| Elastomers                  | Nominal Value | Unit              | Test Method |
| Tensile Stress              |               |                   | ASTM D412   |
| Across Flow : 100% Strain   | 464           | psi               |             |
| Flow : 100% Strain          | 624           | psi               |             |
| Tensile Stress              |               |                   | ISO 37      |
| Across Flow : 100% Strain   | 464           | psi               |             |
| Flow : 100% Strain          | 624           | psi               |             |
| Tensile Strength            |               |                   | ASTM D412   |
| Across Flow : Break         | 914           | psi               |             |
| Flow : Break                | 783           | psi               |             |
| Tensile Stress              |               |                   | ISO 37      |
| Across Flow : Break         | 914           | psi               |             |
| Flow : Break                | 783           | psi               |             |
| Tensile Elongation          |               |                   | ASTM D412   |
| Across Flow : Break         | 640           | %                 |             |
| Flow : Break                | 340           | %                 |             |
| Tensile Elongation          |               |                   | ISO 37      |
| Across Flow : Break         | 640           | %                 |             |
| Flow : Break                | 340           | %                 |             |
| Tear Strength - Across Flow | 190           | lbf/in            | ASTM D624   |
| Tear Strength <sup>2</sup>  | 190           | lbf/in            | ISO 34-1    |

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| Elastomers                                   | Nominal Value | Unit | Test Method |
|----------------------------------------------|---------------|------|-------------|
| Compression Set                              |               |      | ASTM D395   |
| 73°F, 22 hr                                  | 33            | %    |             |
| 158°F, 22 hr                                 | 48            | %    |             |
| 257°F, 70 hr                                 | 70            | %    |             |
| Compression Set                              |               |      | ISO 815     |
| 73°F, 22 hr                                  | 33            | %    |             |
| 158°F, 22 hr                                 | 48            | %    |             |
| 257°F, 70 hr                                 | 70            | %    |             |
| Hardness                                     | Nominal Value | Unit | Test Method |
| Durometer Hardness                           |               |      | ASTM D2240  |
| Shore A, 5 sec, Extruded                     | 72            |      |             |
| Shore A, 5 sec, Injection Molded             | 76            |      |             |
| Shore Hardness                               |               |      | ISO 868     |
| Shore A, 5 sec, Extruded                     | 72            |      |             |
| Shore A, 5 sec, Injection Molded             | 76            |      |             |
| Additional Information                       | Nominal Value | Unit | Test Method |
| Apparent Shear Viscosity - Capillary @ 206/s |               |      |             |
| 392°F                                        | 196           | Pa·s | ASTM D3835  |
| 392°F                                        | 196           | Pa·s | ISO 11443   |

Notes

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

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