

# Sarlink® TPV 6765N (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Vulcanizate

Saturday, September 14, 2024

## General Information

### Product Description

SARLINK® TPV 6765N is a high performance thermoplastic vulcanizate used in automotive applications including interior trim. Sarlink TPV 6765N is a medium hardness, low density grade, available in Nat or can be color-matched with good color stability, exhibiting good UV resistance. This grade is designed for injection molding but could also be extruded. This grade has been approved for GM's GMW 15816 TPV Type 5 specifications and Chrysler's MS-AR-100 BMV2 specifications.

### General

Material Status	• Preliminary Data		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Chemical Resistant • Good Adhesion • Good Color Stability • Good Colorability	• Good Moldability • Good Processability • Light Stabilized • Low Compression Set	• Low Density • Low Specific Gravity • Medium Hardness • UV Resistant
Uses	• Automotive Applications • Automotive Interior Parts	• Automotive Interior Trim • Profiles	• Rubber Replacement • Seals
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• CHRYSLER MS-AR-100 BMV2	• GM GMW15816 Type 5	
Appearance	• Colors Available	• Opaque	• Unspecified Color
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

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

Physical	Nominal Value	Unit	Test Method
Density	0.915	g/cm <sup>3</sup>	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup> (100% Strain)	2.10	MPa	ISO 37
Tensile Stress <sup>2</sup> (Break)	5.50	MPa	ISO 37
Tensile Elongation <sup>2</sup> (Break)	660	%	ISO 37
Tear Strength <sup>3</sup>	26.1	kN/m	ISO 34-1
Compression Set <sup>4</sup> (70°C, 24 hr)	36	%	ISO 815
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 5 sec, Injection Molded	70		
Shore A, 15 sec, Injection Molded	68		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec <sup>-1</sup> )	230	Pa·s	ASTM D3835

### Legal Statement

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

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### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	82	°C
Drying Time	3.0	hr
Rear Temperature	177 to 216	°C
Middle Temperature	177 to 216	°C
Front Temperature	177 to 216	°C
Nozzle Temperature	188 to 221	°C
Processing (Melt) Temp	182 to 221	°C
Mold Temperature	10 to 66	°C
Back Pressure	0.0689 to 1.03	MPa
Screw Speed	100 to 200	rpm
Screw L/D Ratio	20.0:1.0	

  

Extrusion	Nominal Value	Unit
Drying Temperature	82	°C
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	182 to 204	°C
Cylinder Zone 2 Temp.	182 to 204	°C
Cylinder Zone 3 Temp.	188 to 210	°C
Cylinder Zone 4 Temp.	188 to 210	°C
Melt Temperature	193 to 216	°C
Die Temperature	193 to 216	°C
Take-Off Roll	21 to 49	°C

#### 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> Type 1, 500 mm/min

<sup>3</sup> Method Ba, Angle (Unnicked), 500 mm/min

<sup>4</sup> Type A

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