



Sarlink® TPV 6765N (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Vulcanizate

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	• GM GMW15816 Type 5	• STELLANTIS MS-AR-100 BMV2	
Appearance	• Colors Available	• Opaque	• Unspecified Color
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	0.915	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (100% Strain)	305	psi	ISO 37
Tensile Stress ² (Break)	798	psi	ISO 37
Tensile Elongation ² (Break)	660	%	ISO 37
Tear Strength ³	149	lbf/in	ISO 34-1
Compression Set ⁴ (158°F, 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 (392°F, 206 sec ⁻¹)	230	Pa·s	ASTM D3835

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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

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

² Type 1, 20 in/min

³ Method Ba, Angle (Unnicked), 20 in/min

⁴ Type A