

Sarlink® TPV 5775B

Teknor Apex Company - Thermoplastic Vulcanizate

Monday, January 7, 2019

General Information

Product Description

The Sarlink TPV 5700B 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 5775B is a medium hardness, medium density, high performance grade with low fogging and excellent color retention and elastic properties.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• UV Stabilizer		
Features	• Chemical Resistant • Good Processability • High Heat Resistance	• Low Compression Set • Medium Density • Medium Hardness	• Resilient
Uses	• Automotive Applications • Belts/Belt Repair	• Profiles • Rubber Replacement	• Seals • Weatherstripping
Agency Ratings	• UL 94		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	<ul style="list-style-type: none"> • CHRYSLER MS-AR-100 CGV Color: Black • DAIMLER DBL 5562.30 Color: Black • FORD WSS-M2D380-B1 • GM GMP.E/P.057 • GM QK 3523 L Color: Black • GM Sarlink Color Color: Black • PSA Peugeot-Citroën B62 0300 version G Color: Black • VAG VW501 23 Color: Black 		
UL File Number	• QMFZ2.E54709		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Blow Molding • Extrusion	• Injection Molding • Profile Extrusion	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.970		ASTM D792
Density	0.970	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow : 100% Strain	464	psi	
Flow : 100% Strain	711	psi	
Tensile Stress			ISO 37
Across Flow : 100% Strain	464	psi	
Flow : 100% Strain	711	psi	
Tensile Strength			ASTM D412
Across Flow : Break	1230	psi	
Flow : Break	1060	psi	
Tensile Stress			ISO 37
Across Flow : Break	1230	psi	
Flow : Break	1060	psi	

Revision Date: 4/9/2018

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Elastomers	Nominal Value	Unit	Test Method
Tensile Elongation			ASTM D412
Across Flow : Break	590	%	
Flow : Break	340	%	
Tensile Elongation			ISO 37
Across Flow : Break	590	%	
Flow : Break	340	%	
Tear Strength - Across Flow	200	lbf/in	ASTM D624
Tear Strength - Across Flow ²	200	lbf/in	ISO 34-1
Compression Set			ASTM D395
73°F, 22 hr	23	%	
158°F, 22 hr	32	%	
257°F, 70 hr	47	%	
Compression Set			ISO 815
73°F, 22 hr	23	%	
158°F, 22 hr	32	%	
257°F, 70 hr	47	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	72		
Shore A, 5 sec, Injection Molded	75		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	72		
Shore A, 5 sec, Injection Molded	75		
Thermal	Nominal Value	Unit	Test Method
RTI Elec	122	°F	UL 746
RTI Imp	122	°F	UL 746
RTI Str	122	°F	UL 746
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ASTM D573
275°F, 1000 hr	-8.0	%	
100% Strain, 275°F, 1000 hr	4.0	%	
302°F, 168 hr	-10	%	
100% Strain, 302°F, 168 hr	2.0	%	
Change in Tensile Strength in Air - Across Flow			ISO 188
275°F, 1000 hr	-8.0	%	
100% Strain 275°F, 1000 hr	4.0	%	
302°F, 168 hr	-10	%	
100% Strain 302°F, 168 hr	2.0	%	
Change in Ultimate Elongation in Air - Across Flow			ASTM D573
275°F, 1000 hr	-7.0	%	
302°F, 168 hr	-11	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
275°F, 1000 hr	-7.0	%	
302°F, 168 hr	-11	%	
Change in Durometer Hardness in Air			ASTM D573
Shore A, 275°F, 1000 hr	3.0		
Shore A, 302°F, 168 hr	2.0		

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Aging	Nominal Value	Unit	Test Method
Change in Shore Hardness in Air			ISO 188
Shore A, 275°F, 1000 hr	3.0		
Shore A, 302°F, 168 hr	2.0		
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	88	%	ASTM D471
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	88	%	ISO 1817
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in, Black)	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary @ 206/s			
392°F	330	Pa·s	ISO 11443
392°F	330	Pa·s	ASTM D3835

Legal Statement

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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

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Notes

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

² Method Ba, Angle (Unnicked)

**Teknor Apex Company
Corporate Headquarters**

*In U.S. for Vinyls, TPEs, Colorants,
Engineered Thermoplastics (Chem Polymer)*
505 Central Avenue
Pawtucket, Rhode Island 02861 U.S.

Phone: 401-725-8000
Fax: 401-725-8095
Toll Free (U.S. only) 800-556-3864

www.teknorapex.com
info@teknorapex.com

Teknor Apex B.V.

Mijnweg 1,
6167 AC Geleen, Netherlands

Phone: +31 46 7020 950
Fax: +31 46 7020 990

www.teknorapex.com
tpe@teknorapex.com

**Teknor Apex (Suzhou) Advanced Polymer
Compounds Co. Pte. Ltd.**

No. 78 Ping Sheng Road
Suzhou Industrial Park
Jiangsu, China 215126

Phone: (86) 512-6287-1550
Fax: (86) 512-6288-8371

www.teknorapex.com
infotaap@teknorapex.com

Teknor Apex Asia Pacific PTE. LTD.

41 Shipyard Road
Singapore 628134

Phone: (65) 6265-2544
Fax: (65) 6265-1821

www.teknorapex.com
infotaap@teknorapex.com

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