

Sarlink® TPV X4750B42

Teknor Apex Company - Thermoplastic Vulcanizate

Thursday, June 29, 2017

General Information

Product Description

The Sarlink TPV 4700 Series are very high flow injection molding engineering grades with excellent UV resistance, elasticity, and surface aesthetics designed for demanding automotive applications including window encapsulation and exterior parts. Sarlink® TPV X4750B42 is a black, medium hardness, low density thermoplastic vulcanizate suited for injection molding applications that require superior flow properties.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Additive	• UV Stabilizer		
Features	• Chemical Resistant • Good Processability • High Flow • High Heat Resistance	• Low Compression Set • Low Density • Low Specific Gravity • Medium Hardness	• Resilient • UV Resistant
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Window Encapsulation • Rubber Replacement	
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• CHRYSLER MS-AR-100 AMV Color: Natural • GM GMP.E/P.078 Color: Natural	• GM GMW15812P-TPV(EPDM+PP) Type 4M Color: Natural • GM Sarlink Color	
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.910		ASTM D792
Density	0.910	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow : 100% Strain	218	psi	
Flow : 100% Strain	319	psi	
Tensile Stress			ISO 37
Across Flow : 100% Strain	218	psi	
Flow : 100% Strain	319	psi	
Tensile Strength			ASTM D412
Across Flow : Break	609	psi	
Flow : Break	566	psi	
Tensile Stress			ISO 37
Across Flow : Break	609	psi	
Flow : Break	566	psi	
Tensile Elongation			ASTM D412
Across Flow : Break	440	%	
Flow : Break	320	%	
Tensile Elongation			ISO 37
Across Flow : Break	440	%	
Flow : Break	320	%	

上海松翰塑化科技有限公司
 TEKNOR APEX 特诺尔爱佩斯 一级分销商
 teknorapex.shshj.com 联系电话: 021-58958519

Revision Date: 3/16/2017

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Elastomers	Nominal Value	Unit	Test Method
Tear Strength - Across Flow	91.0	lbf/in	ASTM D624
Tear Strength - Across Flow ²	91	lbf/in	ISO 34-1
Compression Set			ASTM D395
73°F, 22 hr	15	%	
158°F, 22 hr	26	%	
257°F, 70 hr	40	%	
Compression Set			ISO 815
73°F, 22 hr	15	%	
158°F, 22 hr	26	%	
257°F, 70 hr	40	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	50		
Shore A, 5 sec, Injection Molded	53		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	50		
Shore A, 5 sec, Injection Molded	53		
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ASTM D573
275°F, 1000 hr	-11	%	
100% Strain, 275°F, 1000 hr	-1.0	%	
302°F, 168 hr	-20	%	
100% Strain, 302°F, 168 hr	-7.0	%	
Change in Tensile Strength in Air - Across Flow			ISO 188
275°F, 1000 hr	-11	%	
100% Strain 275°F, 1000 hr	-1.0	%	
302°F, 168 hr	-20	%	
100% Strain 302°F, 168 hr	-7.0	%	
Change in Ultimate Elongation in Air - Across Flow			ASTM D573
275°F, 1000 hr	-1.0	%	
302°F, 168 hr	-13	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
275°F, 1000 hr	-1.0	%	
302°F, 168 hr	-13	%	
Change in Durometer Hardness in Air			ASTM D573
Shore A, 275°F, 1000 hr	2.0		
Shore A, 302°F, 168 hr	-1.0		
Change in Shore Hardness in Air			ISO 188
Shore A, 275°F, 1000 hr	2.0		
Shore A, 302°F, 168 hr	-1.0		
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	85	%	ASTM D471
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	85	%	ISO 1817
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary @ 206/s			
392°F	220	Pa·s	ISO 11443
392°F	220	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 450	°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	

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

Teknor Apex U.K. Ltd.

Tat Bank Road
Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100
Fax: (44) 121-544-5530

etpsales@teknorapex.co.uk

info@teknorapex.com

上海松翰塑化科技有限公司
TEKNOR APEX 特诺尔爱佩斯 一级分销商
teknorapex.shshsj.com 联系电话: 021-58958519

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