

Sarlink® TPV X5745B

Teknor Apex Company - Thermoplastic Vulcanizate

Thursday, June 29, 2017

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 X5745B is a medium hardness, low 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
Features	• Chemical Resistant • Good Processability	• Low Density • Medium Hardness	• UV Resistant
Uses	• Automotive Applications	• Automotive Exterior Parts	• Rubber Replacement
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• DAIMLER DBL 5562.30 Color: Black	• VAG VW501 23 Color: Black	
Appearance	• Black		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950		ASTM D792
Density	0.950	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow : 100% Strain	174	psi	
Flow : 100% Strain	305	psi	
Tensile Stress			ISO 37
Across Flow : 100% Strain	174	psi	
Flow : 100% Strain	305	psi	
Tensile Strength			ASTM D412
Across Flow : Break	624	psi	
Flow : Break	435	psi	
Tensile Stress			ISO 37
Across Flow : Break	624	psi	
Flow : Break	435	psi	
Tensile Elongation			ASTM D412
Across Flow : Break	540	%	
Flow : Break	230	%	
Tensile Elongation			ISO 37
Across Flow : Break	540	%	
Flow : Break	230	%	
Tear Strength - Across Flow	97.0	lbf/in	ASTM D624
Tear Strength - Across Flow ²	97	lbf/in	ISO 34-1
Compression Set			ASTM D395
73°F, 22 hr	13	%	
158°F, 22 hr	26	%	
257°F, 70 hr	42	%	

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Revision Date: 6/1/2016

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Elastomers	Nominal Value	Unit	Test Method
Compression Set			ISO 815
73°F, 22 hr	13	%	
158°F, 22 hr	26	%	
257°F, 70 hr	42	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	44		
Shore A, 5 sec, Injection Molded	46		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	44		
Shore A, 5 sec, Injection Molded	46		
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ASTM D573
275°F, 1000 hr	-7.0	%	
100% Strain, 275°F, 1000 hr	0.0	%	
302°F, 168 hr	2.0	%	
100% Strain, 302°F, 168 hr	1.0	%	
Change in Tensile Strength in Air - Across Flow			ISO 188
275°F, 1000 hr	-7.0	%	
100% Strain 275°F, 1000 hr	0.0	%	
302°F, 168 hr	2.0	%	
100% Strain 302°F, 168 hr	1.0	%	
Change in Ultimate Elongation in Air - Across Flow			ASTM D573
275°F, 1000 hr	14	%	
302°F, 168 hr	12	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
275°F, 1000 hr	14	%	
302°F, 168 hr	12	%	
Change in Durometer Hardness in Air			ASTM D573
Shore A, 275°F, 1000 hr	-2.0		
Shore A, 302°F, 168 hr	-2.0		
Change in Shore Hardness in Air			ISO 188
275°F, 1000 hr	-2.0		
302°F, 168 hr	-2.0		
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	120	%	ASTM D471
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	120	%	ISO 1817
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary @ 206/s			
392°F	280	Pa·s	ISO 11443
392°F	280	Pa·s	ASTM D3835

Legal Statement

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Notes

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

² Method Ba, Angle (Unnicked)

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