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TEKNOR APEX

Sarlink® TPV X5735B

Teknor Apex Company - Thermoplastic Vulcanizate

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 X5735B is a low 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	• Low Hardness • Low Specific Gravity • Resilient	• UV Resistant
Uses	• Automotive Applications	• Automotive Exterior Parts	• Rubber Replacement
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• CHRYSLER MS-AR-100 IGV Color: Black • FORD Unspecified Color: Black	• GM GMN3927 Color: Black • GM GMW15812P-TPV (EPDM+PP) Type 2 Color: Black	• VAG VW82034 Color: Black • VAG VW91101 Color: Black
Appearance	• Black		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930		ASTM D792
Density	0.930	g/cm³	ISO 1183
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
Across Flow : 100% Strain	116	psi	
Flow : 100% Strain	247	psi	
Tensile Stress			ISO 37
Across Flow : 100% Strain	116	psi	
Flow : 100% Strain	247	psi	
Tensile Strength			ASTM D412
Across Flow : Break	479	psi	
Flow : Break	377	psi	
Tensile Stress			ISO 37
Across Flow : Break	479	psi	
Flow : Break	377	psi	
Tensile Elongation			ASTM D412
Across Flow : Break	530	%	
Flow : Break	210	%	
Tensile Elongation			ISO 37
Across Flow : Break	530	%	
Flow : Break	210	%	
Tear Strength - Across Flow	57.0	lbf/in	ASTM D624
Tear Strength - Across Flow [2]	57	lbf/in	ISO 34-1
Compression Set			ASTM D395
73°F, 22 hr	12	%	
158°F, 22 hr	23	%	
257°F, 70 hr	42	%	

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Elastomers	Nominal Value	Unit	Test Method
Compression Set			ISO 815
73°F, 22 hr	12	%	
158°F, 22 hr	23	%	
257°F, 70 hr	42	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	34		
Shore A, 5 sec, Injection Molded	36		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	34		
Shore A, 5 sec, Injection Molded	36		
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air - Across Flow			ASTM D573
275°F, 1000 hr	-5.0	%	
100% Strain, 275°F, 1000 hr	4.0	%	
302°F, 168 hr	2.0	%	
100% Strain, 302°F, 168 hr	8.0	%	
Change in Tensile Strength in Air - Across Flow			ISO 188
275°F, 1000 hr	-5.0	%	
100% Strain 275°F, 1000 hr	4.0	%	
302°F, 168 hr	2.0	%	
100% Strain 302°F, 168 hr	8.0	%	
Change in Ultimate Elongation in Air - Across Flow			ASTM D573
275°F, 1000 hr	15	%	
302°F, 168 hr	12	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
275°F, 1000 hr	15	%	
302°F, 168 hr	12	%	
Change in Durometer Hardness in Air			ASTM D573
Shore A, 275°F, 1000 hr	0.0		
Shore A, 302°F, 168 hr	1.0		
Change in Shore Hardness in Air			ISO 188
Shore A, 275°F, 1000 hr	0.0		
Shore A, 302°F, 168 hr	1.0		
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	110	%	ASTM D471
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	110	%	ISO 1817
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Apparent Shear Viscosity - Capillary @ 206/s			
392°F	210	Pa·s	ISO 11443
392°F	210	Pa·s	ASTM D3835