

Sarlink® TPV 5765B

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

A highly engineered Thermoplastic Elastomer for use in demanding applications. Sarlink® X-5765B4 is a UV stable low hardness grade possessing exceptional tensile strength, superior compression set, chemical resistance and high temperature performance. It can be easily processed by extrusion, injection molding or blow molding for various applications such as glass run channels, waistbelts, weatherstrips, seals and other profiles.

General Information	
UL YellowCard	E54709-101009561
Features	High tensile strength
	High melt stability
	Good UV resistance
	Good chemical resistance
	Heat resistance, high
	Hardness, low
Uses	Seals
	Weather-resistant sealing strip
	Profile
Appearance	Opacity
Forms	Particle
Processing Method	Blow molding
	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.968	g/cm ³	ASTM D792
--	0.970	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shaw A, 5 seconds, extruded	65		ASTM D2240, ISO 868
Shore A, 5 seconds, injection molding	68		ASTM D2240, ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412, ISO 37
Transverse flow: 100% strain	2.70	MPa	ASTM D412, ISO 37
Flow: 100% strain	4.20	MPa	ASTM D412, ISO 37
Tensile Strength			
Transverse flow: Fracture	7.10	MPa	ASTM D412

Flow: Fracture	6.30	MPa	ASTM D412, ISO 37
Fracture	7.10	MPa	ISO 37
Tensile Elongation			ASTM D412, ISO 37
Transverse flow: Fracture	570	%	ASTM D412, ISO 37
Flow: Fracture	320	%	ASTM D412, ISO 37
Tear Strength - Across Flow			
--	29.8	kN/m	ASTM D624
-- ¹	29	kN/m	ISO 34-1
Compression Set			
23°C, 22 hr	21	%	ASTM D395
70°C, 22 hr	30	%	ASTM D395
125°C, 70 hr	44	%	ASTM D395
-5°C, 22 hr	21	%	ISO 815
21°C, 22 hr	30	%	ISO 815
52°C, 70 hr	44	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			
135°C, 1000 hr	5.0	%	ASTM D573
100% strain, 135°C, 1000 hr	-13	%	ASTM D573
150°C, 168 hr	-4.0	%	ASTM D573
100% strain, 150°C, 168 hr	-7.0	%	ASTM D573
100% strain 57°C, 1000 hr	5.0	%	ISO 188
66°C, 168 hr	-13	%	ISO 188
100% strain 66°C, 168 hr	-4.0	%	ISO 188
135°C, 1000 hr	-7.0	%	ISO 188
Change in Ultimate Elongation in Air - Across Flow			
135°C, 1000 hr	-2.0	%	ASTM D573
150°C, 168 hr	-5.0	%	ASTM D573, ISO 188
57°C, 1000 hr	-2.0	%	ISO 188
Change in Durometer Hardness in Air			
Support a, 135°C, 1000 hr	2.0		ASTM D573
Support a, 150°C, 168 hr	1.0		ASTM D573, ISO 188
Support A, 57°C, 1000 hr	2.0		ISO 188
Change in Volume			
125°C, 70 hr, in IRM 903 oil	91	%	ASTM D471
125°C, 70 hr, in IRM 903 oil	91	%	ISO 1817
Thermal	Nominal Value	Unit	Test Method
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI	50.0	°C	UL 746
Flammability	Nominal Value		Test Method

Flame Rating (1.50 mm, Black)	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary @ 206/s			
200°C	340	Pa·s	ISO 11443
200°C	340	Pa·s	ASTM D3835
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	3.0	hr	
Rear Temperature	177 - 216	°C	
Middle Temperature	177 - 216	°C	
Front Temperature	177 - 216	°C	
Nozzle Temperature	188 - 221	°C	
Processing (Melt) Temp	182 - 221	°C	
Mold Temperature	10.0 - 65.6	°C	
Back Pressure	0.0689 - 1.03	MPa	
Screw Speed	100 - 200	rpm	
Screw L/D Ratio	20.0:1.0		
Extrusion	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	3.0	hr	
Cylinder Zone 1 Temp.	182 - 204	°C	
Cylinder Zone 2 Temp.	182 - 204	°C	
Cylinder Zone 3 Temp.	188 - 210	°C	
Cylinder Zone 4 Temp.	188 - 210	°C	
Melt Temperature	193 - 216	°C	
Die Temperature	193 - 216	°C	
Take-Off Roll	21.1 - 48.9	°C	
Extrusion instructions			
Screen Pack: 20 to 60 MeshScrew: General PurposeCompression Ratio: 3:1			
NOTE			

- Method B, right-angle specimen (without cut)

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