Sarlink® TPV 4775B42

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

Sarlink® 4000 series are engineered materials designed for demanding automotive applications. Sarlink® X4775-42 exhibits excellent compression set and weatherability. The material is developed for injection molded applications featuring high flow and UV stability. Applications include window encapsulation, spoiler extensions and other intricate and high flow demanding applications.

General Information			
Features	Good UV resistance High liquidity Good weather resistance		
Uses	Application in Automobile Field		
Appearance	Opacity		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	0.908	g/cm³	ASTM D792
--	0.910	g/cm³	ISO 1183
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240, ISO 868
Shaw A, 5 seconds, extruded	74		ASTM D2240, ISO 868
Shore A, 5 seconds, injection molding	76		ASTM D2240, ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412, ISO 37
Transverse flow: 100% strain	3.20	MPa	ASTM D412, ISO 37
Flow: 100% strain	3.40	MPa	ASTM D412, ISO 37
Tensile Strength			ASTM D412, ISO 37
Transverse flow: Fracture	6.30	MPa	ASTM D412, ISO 37
Flow: Fracture	5.80	MPa	ASTM D412, ISO 37
Tensile Elongation			ASTM D412, ISO 37
Transverse flow: Fracture	470	%	ASTM D412, ISO 37
Flow: Fracture	410	%	ASTM D412, ISO 37
Tear Strength - Across Flow			
--	31.5	kN/m	ASTM D624
-- [1]	31	kN/m	ISO 34-1
Compression Set			ASTM D395, ISO 815
23°C, 22 hr	24	%	ASTM D395, ISO 815
70°C, 22 hr	39	%	ASTM D395, ISO 815

125°C, 70 hr	56	%	ASTM D395, ISO 815
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air - Across Flow			
135°C, 1000 hr	-18	%	ASTM D573, ISO 188
100% strain, 135°C, 1000 hr	3.0	%	ASTM D573
150°C, 168 hr	-19	%	ASTM D573, ISO 188
100% strain, 150°C, 168 hr	2.0	%	ASTM D573
100% strain 135°C, 1000 hr	3.0	%	ISO 188
100% strain 150°C, 168 hr	2.0	%	ISO 188
Change in Ultimate Elongation in Air - Across Flow			ASTM D573, ISO 188
135°C, 1000 hr	-28	%	ASTM D573, ISO 188
150°C, 168 hr	-24	%	ASTM D573, ISO 188
Change in Durometer Hardness in Air			ASTM D573, ISO 188
Support a, 135°C, 1000 hr	-2.0		ASTM D573, ISO 188
Support a, 150°C, 168 hr	1.0		ASTM D573, ISO 188
Change in Volume			
125°C, 70 hr, in IRM 903 oil	73	%	ASTM D471
125°C, 70 hr, in IRM 903 oil	73	%	ISO 1817
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Apparent Shear Viscosity - Capillary @ 206/s			
200°C	200		ISO 11443
200°C	200	Pa·s	ASTM D3835
Injection	**Nominal Value**	**Unit**	
Rear Temperature	180 - 205	°C	
Middle Temperature	180 - 205	°C	
Front Temperature	180 - 205	°C	
Nozzle Temperature	185 - 210	°C	
Processing (Melt) Temp	185 - 210	°C	
Mold Temperature	10.0 - 55.0	°C	
Back Pressure	0.100 - 1.00	MPa	
Screw Speed	100 - 200	rpm	
Extrusion instructions			
Spiral Flow Ratio, DSM Method: 3			
NOTE			
1.	Method B, right-angle specimen (without cut)		

Recommended distributors for this material

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