

Sarlink® TPV X5745B

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

Sarlink® TPV X5745B is a Thermoplastic Vulcanizate (TPV) material. It is available in Asia Pacific, Europe, Latin America, or North America.

General Information			
Appearance	Opaque		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.948	g/cm ³	ASTM D792
--	0.950	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shore A, 5 sec, Extruded	44		
Shore A, 5 sec, Injection Molded	46		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412, ISO 37
Across Flow : 100% Strain	1.20	MPa	
Flow : 100% Strain	2.10	MPa	
Tensile Strength			ASTM D412, ISO 37
Across Flow : Break	4.30	MPa	
Flow : Break	3.00	MPa	
Tensile Elongation			ASTM D412, ISO 37
Across Flow : Break	540	%	
Flow : Break	230	%	
Tear Strength - Across Flow			
--	17.0	kN/m	ASTM D624
-- ¹	17	kN/m	ISO 34-1
Compression Set			ASTM D395, ISO 815
23°C, 22 hr	13	%	
70°C, 22 hr	26	%	
125°C, 70 hr	42	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			
135°C, 1000 hr	-7.0	%	ASTM D573, ISO 188
100% Strain, 135°C, 1000 hr	0.0	%	ASTM D573
150°C, 168 hr	2.0	%	ASTM D573, ISO 188
100% Strain, 150°C, 168 hr	1.0	%	ASTM D573

100% Strain 135°C, 1000 hr	0.0	%	ISO 188
100% Strain 150°C, 168 hr	1.0	%	ISO 188
Change in Ultimate Elongation in Air - Across Flow			ASTM D573, ISO 188
135°C, 1000 hr	14	%	
150°C, 168 hr	12	%	
Change in Durometer Hardness in Air			
Shore A, 135°C, 1000 hr	-2.0		ASTM D573
Shore A, 150°C, 168 hr	-2.0		ASTM D573
135°C, 1000 hr	-2.0		ISO 188
150°C, 168 hr	-2.0		ISO 188
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	120	%	ASTM D471, ISO 1817
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary @ 206/s			
200°C	280	Pa·s	ISO 11443
200°C	280	Pa·s	ASTM D3835
NOTE			

1. Method Ba, Angle (Unnicked)

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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