

Sarlink® TPV X4145B-W1 BLACK

(PRELIMINARY DATA)

Thermoplastic Vulcanizate
Teknor Apex Company

Message:

SARLINK® X4145BW1 BLACK is a specially developed engineering material designed primarily for demanding consumer, industrial, and automotive applications. SARLINK® X4145BW1 BLACK is a low density, medium hardness thermoplastic vulcanizate that exhibits excellent compression set, flex fatigue, high and low temperature performance and very good chemical resistance including copper contact. This grade can be processed by injection molding, extrusion, and profile extrusion.

General Information	
Features	Low Specific Gravity
	Low compressive deformability
	Low density
	Workability, good
	Good melt strength
	Good chemical resistance
	Heat resistance, high
	Fill
	Copper contact stability
	Elastic
	Medium hardness
Uses	O-rings
	Plug
	Bushing
	Large household appliances and small household appliances
	Washer
	Diaphragm
	Industrial application
	Home appliance components
	Seals
	Application in Automobile Field
	Rubber substitution
	Consumer goods application field
	Profile
RoHS Compliance	RoHS compliance
Appearance	Opacity
	Black

Forms	Particle
Processing Method	Extrusion
	Profile extrusion molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shaw A, 5 seconds, extruded	45		ISO 868
Shore A, 5 seconds, injection molding	48		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain)	1.40	MPa	ISO 37
Tensile Stress - Across Flow (Break)	4.10	MPa	ISO 37
Tensile Elongation - Across Flow (Break)	500	%	ISO 37
Tear Strength - Across Flow ¹	20	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 22 hr	14	%	ISO 815
70°C, 22 hr	27	%	ISO 815
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec ⁻¹)	323	Pa · s	ASTM D3835

Legal statement

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Injection	Nominal Value	Unit
Drying Temperature	82	°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 - 66	°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	°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 - 49	°C

Extrusion instructions

Screen Pack: 20 to 60 meshScrew: 3:1 Compression Ratio

NOTE

1.
- Method B, right-angle specimen
(without cut)

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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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