

Sarlink® TPV 3160

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

SARLINK® 3160 is a medium hardness, multi-purpose thermoplastic elastomer, featuring excellent compression set, heat resistance and weatherability. SARLINK® 3160 can be processed by injection molding, blow molding or extrusion for applications such as seals, gaskets, diaphragms and weather-stripping.

General Information	
UL YellowCard	E54709-101009570
Features	Good weather resistance
	Heat resistance, medium
	Medium hardness
Uses	Washer
	Diaphragm
	Seals
	Weather-resistant sealing strip
Appearance	Opacity
Forms	Particle
Processing Method	Blow molding
	Extrusion
	Injection molding

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
Shaw A, 5 seconds, extruded	62		ASTM D2240, ISO 868
Shore A, 5 seconds, injection molding	65		ASTM D2240, ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412, ISO 37
Transverse flow: 100% strain	2.50	MPa	ASTM D412, ISO 37
Flow: 100% strain	3.80	MPa	ASTM D412, ISO 37
Tensile Strength			ASTM D412, ISO 37
Transverse flow: Fracture	6.30	MPa	ASTM D412, ISO 37
Flow: Fracture	5.40	MPa	ASTM D412, ISO 37
Tensile Elongation			ASTM D412, ISO 37

Transverse flow: Fracture	640	%	ASTM D412, ISO 37
Flow: Fracture	270	%	ASTM D412, ISO 37
Tear Strength - Across Flow			
--	31.5	kN/m	ASTM D624
-- ¹	32	kN/m	ISO 34-1
Compression Set			
23°C, 22 hr	23	%	ASTM D395, ISO 815
70°C, 22 hr	34	%	ASTM D395, ISO 815
125°C, 70 hr	55	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			
135°C, 1000 hr	-4.0	%	ASTM D573, ISO 188
100% strain, 135°C, 1000 hr	3.0	%	ASTM D573
150°C, 168 hr	-1.0	%	ASTM D573, ISO 188
100% strain, 150°C, 168 hr	7.0	%	ASTM D573
100% strain 135°C, 1000 hr	3.0	%	ISO 188
100% strain 150°C, 168 hr	7.0	%	ISO 188
Change in Ultimate Elongation in Air - Across Flow			
			ASTM D573, ISO 188
135°C, 1000 hr	-5.0	%	ASTM D573, ISO 188
150°C, 168 hr	-11	%	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	3.0		ASTM D573, ISO 188
Change in Volume			
125°C, 70 hr, in IRM 903 oil	120	%	ASTM D471
125°C, 70 hr, in IRM 903 oil	120	%	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, Natural and Black Colors)	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, @ 206/s			
200°C	310		ISO 11443
200°C	310	Pa · s	ASTM D3835
Injection	Nominal Value	Unit	
Rear Temperature	180 - 215	°C	
Middle Temperature	180 - 215	°C	

Front Temperature	180 - 215	°C
Nozzle Temperature	187 - 220	°C
Processing (Melt) Temp	185 - 220	°C
Mold Temperature	10.0 - 55.0	°C
Back Pressure	0.100 - 1.00	MPa
Screw Speed	100 - 200	rpm
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	180 - 200	°C
Cylinder Zone 2 Temp.	180 - 205	°C
Cylinder Zone 3 Temp.	187 - 210	°C
Cylinder Zone 4 Temp.	187 - 210	°C
Melt Temperature	195 - 215	°C
Die Temperature	195 - 215	°C
Take-Off Roll	20.0 - 50.0	°C

Extrusion instructions

Screen Pack: 20 to 60 meshScrew: general purposeCompression Ratio: 3:1
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NOTE

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