Sarlink® TPV 3190

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

SARLINK® 3190 is a multi-purpose, thermoplastic elastomer featuring excellent flex fatigue resistance, heat aging and resilience. SARLINK® 3190 is a high hardness grade for use in injection molded parts, sheet and profile extrusions such as weather-stripping. It can be also blow molded into boots and ducts.

General Information	
UL YellowCard	E54709-101009573
Features	Good heat aging resistance Fatigue resistance High hardness Elastic
Uses	Weather-resistant sealing strip Sheet Profile
Appearance	Opacity
Forms	Particle
Processing Method	Blow molding Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.938	g/cm³	ASTM D792
--	0.940	g/cm³	ISO 1183
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240, ISO 868
Shaw A, 5 seconds, extruded	89		ASTM D2240, ISO 868
Shore A, 5 seconds, injection molding	92		ASTM D2240, ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412, ISO 37
Transverse flow: 100% strain	6.60	MPa	ASTM D412, ISO 37
Flow: 100% strain	10.0	MPa	ASTM D412, ISO 37
Tensile Strength			ASTM D412, ISO 37
Transverse flow: Fracture	13.5	MPa	ASTM D412, ISO 37
Flow: Fracture	12.1	MPa	ASTM D412, ISO 37
Tensile Elongation			ASTM D412, ISO 37

Transverse flow: Fracture	700	%	ASTM D412, ISO 37
Flow: Fracture	380	%	ASTM D412, ISO 37
Tear Strength - Across Flow			
--	80.6	kN/m	ASTM D624
-- [1]	81	kN/m	ISO 34-1
Compression Set			ASTM D395, ISO 815
23°C, 22 hr	48	%	ASTM D395, ISO 815
70°C, 22 hr	61	%	ASTM D395, ISO 815
125°C, 70 hr	75	%	ASTM D395, ISO 815
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air - Across Flow			
135°C, 1000 hr	-10	%	ASTM D573, ISO 188
100% strain, 135°C, 1000 hr	9.0	%	ASTM D573
150°C, 168 hr	-5.0	%	ASTM D573, ISO 188
100% strain, 150°C, 168 hr	11	%	ASTM D573
100% strain 135°C, 1000 hr	9.0	%	ISO 188
100% strain 150°C, 168 hr	11	%	ISO 188
Change in Ultimate Elongation in Air - Across Flow			
135°C, 1000 hr	-15	%	ASTM D573
150°C, 168 hr	-12	%	ASTM D573, ISO 188
135°C, 168 hr	-15	%	ISO 188
Change in Durometer Hardness in Air			ASTM D573, ISO 188
Support a, 135°C, 1000 hr	-1.0		ASTM D573, ISO 188
Support a, 150°C, 168 hr	2.0		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
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	Pa·s	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

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

Recommended distributors for this material

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