

Sarlink® TPV 3135

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

A low hardness, multi-purpose thermoplastic elastomer featuring excellent compression set and high temperature performance. Sarlink® 3135 can be processed by injection molding or extrusion for applications such as grips, seals, gaskets, profiles and other articles.

General Information	
UL YellowCard	E54709-101009565
Features	High melt stability
	Heat resistance, high
	General
	Hardness, low
Uses	Washer
	Seals
	Profile
Appearance	Opacity
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	g/cm ³	ASTM D792, ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shaw A, 5 seconds, extruded	38		ASTM D2240, ISO 868
Shore A, 5 seconds, injection molding	43		ASTM D2240, ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412, ISO 37
Transverse flow: 100% strain	1.10	MPa	ASTM D412, ISO 37
Flow: 100% strain	2.10	MPa	ASTM D412, ISO 37
Tensile Stress			ASTM D412, ISO 37
Transverse flow: Fracture	4.00	MPa	ASTM D412, ISO 37
Flow: Fracture	2.20	MPa	ASTM D412, ISO 37
Tensile Elongation			
Transverse flow: Fracture	600	%	ASTM D412, ISO 37
Flow: Fracture	200	%	ISO 37, ASTM D412
Tear Strength - Across Flow			

--	15	kN/m	ASTM D624
-- 1	15	kN/m	ISO 34-1
Compression Set			ASTM D395, ISO 815
23°C, 22 hr	15	%	ASTM D395, ISO 815
70°C, 22 hr	30	%	ASTM D395, ISO 815
125°C, 70 hr	52	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ASTM D573, ISO 188
135°C, 1000 hr	0.0	%	ASTM D573, ISO 188
100% strain 135°C, 1000 hr	4.0	%	ASTM D573, ISO 188
150°C, 168 hr	4.0	%	ASTM D573, ISO 188
100% strain 150°C, 168 hr	11	%	ASTM D573, ISO 188
Changes in tensile stress upon fracture in air-Transverse flow			
135°C, 1000 hr	-2.0	%	ASTM D573, ISO 188
150°C, 168 hr	1.0	%	ISO 188, ASTM D573
Change in Shore Hardness in Air			
Support a, 135°C, 1000 hr	-1.0		ASTM D573, ISO 188
Support a, 150°C, 168 hr	1.0		ISO 188, ASTM D573
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	150	%	ASTM D471, 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, All Colors)	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, @ 206/s			
200°C	270	Pa · s	ASTM D3835
200°C	270	Pa · s	ISO 11443
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°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	10.0 - 65.6	°C	
Back Pressure	0.0689 - 0.345	MPa	

Screw Speed	100 - 200	rpm
Screw L/D Ratio	20.0:1.0	
Extrusion	Nominal Value	Unit
Drying Temperature	82.2	°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	21.1 - 48.9	°C
Extrusion instructions		
Screen Pack: 20 to 60 MeshScrew: General PurposeCompression Ratio: 3:1		
NOTE		

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

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