

Sarlink® TPV 3450N

Teknor Apex Company - Thermoplastic Vulcanizate

Thursday, June 29, 2017

				on

Product Description

Processing Method

Sarlink TPV 3450N is a general purpose thermoplastic vulcanizate used in consumer and industrial applications. Sarlink TPV 3450N is a low hardness, low density, RoHS compliant grade suitable for injection molding, blow molding, extrusion, and pipe extrusion.

Seneral				
Material Status	Commercial: Active			
Availability	Asia Pacific	Latin America		
Availability	Europe North America			
	Chemical Resistant	High Heat Resistance		
Features	 General Purpose 	 Low Density 	 Low Specific Gravity 	
	 Good Adhesion 	 Low Hardness 		
11	Fittings	Piping		
Uses	 General Purpose 	 Potable Water Applicatio 	ons	
Agency Ratings	NSF STD-61			
RoHS Compliance	 RoHS Compliant 			
Appearance	Opaque			
Forms	Pellets			

· Injection Molding

· Pipe Extrusion

· Blow Molding

Extrusion

	ASTM & ISO Properties ¹		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940		ASTM D792
Density	0.940	g/cm³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow: 100% Strain	261	psi	
Flow: 100% Strain	319	psi	
Tensile Stress			ISO 37
Across Flow: 100% Strain	261	psi	
Flow: 100% Strain	319	psi	
Tensile Strength			ASTM D412
Across Flow : Yield	682	psi	
Flow: Yield	479	psi	
Tensile Stress			ISO 37
Across Flow : Break	682	psi	
Flow : Break	479	psi	
Tensile Elongation			ASTM D412
Across Flow : Break	580	%	
Flow : Break	320	%	《制》
Tensile Elongation		(出有)	150 37
Across Flow : Break	580	% 1×1周斯	58958519
Flow : Break	320	路尔爱加 02	1-5-
Tear Strength - Across Flow ²	L'BILL APE/37	dbf/in	ASTM D624
Tear Strength - Across Flow	TEKNON Shahala	1bf/in	ISO 34-1
Total Offerigat - Actions Flow	580 320 580 580 580 580 580 580 580 580 580 58	101/111	100 34-1

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Elastomers	Nominal Value	Unit	Test Method
Compression Set			ASTM D395B
73°F, 22 hr	20	%	
158°F, 22 hr	37	%	
212°F, 22 hr	41	%	
Compression Set			ISO 815
73°F, 22 hr	20	%	
158°F, 22 hr	37	%	
257°F, 70 hr	41	%	
lardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	54		
Shore A, 5 sec, Injection Molded	57		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	54		
Shore A, 5 sec, Injection Molded	57		
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ASTM D573
275°F, 1000 hr	-6.0	%	
100% Strain, 275°F, 1000 hr	7.0	%	
302°F, 168 hr	7.0		
100% Strain, 302°F, 168 hr	5.0		
Change in Tensile Strength in Air - Across Flow			ISO 188
275°F, 1000 hr	-6.0	%	100 100
100% Strain 275°F, 1000 hr	7.0		
302°F, 168 hr	7.0		
100% Strain 302°F, 168 hr	5.0		
Change in Ultimate Elongation in Air - Across Flow	0.0	70	ASTM D573
275°F, 1000 hr	-7.0	%	7.61W 2076
302°F, 168 hr	8.0		
Change in Tensile Strain at Break in Air	0.0	70	ISO 188
275°F, 1000 hr	-7.0	0/_	130 100
302°F, 168 hr	-7.0 8.0		
	6.0	70	ACTM DEZ2
Change in Durometer Hardness in Air	1.0		ASTM D573
Shore A, 275°F, 1000 hr	1.0		
Shore A, 302°F, 168 hr	2.0		100.400
Change in Shore Hardness in Air	4.0		ISO 188
Shore A, 275°F, 1000 hr	1.0		
Shore A, 302°F, 168 hr	2.0	01	
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	130		ASTM D471
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	130		ISO 1817
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, @ 206/s	11/2	以技	如 10058519
392°F	拉拉里沙	Pa·s	021-58950 ISO 11443
392°F	Nominal Value Light APE 2705 TEKNOR APE 2705 teknorapex.shshsj.com	Passel	ASTM D3835

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Legal Statement

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	Processing Information			
Injection	Nominal Value	Unit		
Drying Temperature	180	°F		
Drying Time	3.0	hr		
Rear Temperature	350 to 420	°F		
Middle Temperature	350 to 420	°F		
Front Temperature	350 to 420	°F		
Nozzle Temperature	370 to 430	°F		
Processing (Melt) Temp	360 to 430	°F		
Mold Temperature	50 to 150	°F		
Back Pressure	10.0 to 150	psi		
Screw Speed	100 to 200	rpm		
Screw L/D Ratio	20.0:1.0			
Extrusion	Nominal Value	Unit		
Drying Temperature	180	°F		
Drying Time	3.0	hr		
Cylinder Zone 1 Temp.	360 to 400	°F		
Cylinder Zone 2 Temp.	360 to 400	°F		
Cylinder Zone 3 Temp.	370 to 410	°F		
Cylinder Zone 4 Temp.	370 to 410	°F		
Melt Temperature	380 to 420	°F		
Die Temperature	380 to 420	°F		
Take-Off Roll	70 to 120	°F		

Extrusion Notes

Screen Pack: 20 to 60 mesh Screw: 3:1 Compression Ratio

Notes

¹ Typical properties: these are not to be construed as specifications.

² Die C

Teknor Apex Company Corporate Headquarters

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