

Sarlink® TPV 3470N

Teknor Apex Company - Thermoplastic Vulcanizate

Thursday, June 29, 2017

General Information

Product Description

Sarlink TPV 3470N is a high performance thermoplastic vulcanizate used in a variety of automotive, consumer and industrial applications. Sarlink TPV 3470N is a medium hardness, low density, RoHS compliant grade suitable for injection molding, blow molding and extrusion.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Chemical Resistant • General Purpose • Good Adhesion	• High Heat Resistance • Low Density • Low Specific Gravity	• Medium Hardness
Uses	• Fittings • General Purpose	• Piping • Potable Water Applications	
Agency Ratings	• NSF STD-61		
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Blow Molding • Extrusion	• Injection Molding • Pipe Extrusion	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940		ASTM D792
Density	0.940	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow : 100% Strain	450	psi	
Flow : 100% Strain	522	psi	
Tensile Stress			ISO 37
Across Flow : 100% Strain	450	psi	
Flow : 100% Strain	522	psi	
Tensile Strength			ASTM D412
Across Flow : Yield	1120	psi	
Flow : Yield	754	psi	
Tensile Stress			ISO 37
Across Flow : Break	1120	psi	
Flow : Break	754	psi	
Tensile Elongation			ASTM D412
Across Flow : Break	680	%	
Flow : Break	380	%	
Tensile Elongation			ISO 37
Across Flow : Break	680	%	
Flow : Break	380	%	
Tear Strength - Across Flow ²	239	lbf/in	ASTM D624
Tear Strength - Across Flow	240	lbf/in	ISO 34-1

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Elastomers	Nominal Value	Unit	Test Method
Compression Set			ASTM D395B
73°F, 22 hr	25	%	
158°F, 22 hr	43	%	
212°F, 22 hr	47	%	
Compression Set			ISO 815
73°F, 22 hr	25	%	
158°F, 22 hr	43	%	
257°F, 70 hr	47	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	71		
Shore A, 5 sec, Injection Molded	74		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	71		
Shore A, 5 sec, Injection Molded	74		
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ASTM D573
275°F, 1000 hr	-8.0	%	
100% Strain, 275°F, 1000 hr	10	%	
302°F, 168 hr	-4.0	%	
100% Strain, 302°F, 168 hr	5.0	%	
Change in Tensile Strength in Air - Across Flow			ISO 188
275°F, 1000 hr	-8.0	%	
100% Strain 275°F, 1000 hr	10	%	
302°F, 168 hr	-4.0	%	
100% Strain 302°F, 168 hr	5.0	%	
Change in Ultimate Elongation in Air - Across Flow			ASTM D573
275°F, 1000 hr	-13	%	
302°F, 168 hr	-14	%	
Change in Tensile Strain at Break in Air			ISO 188
275°F, 1000 hr	-13	%	
302°F, 168 hr	-14	%	
Change in Durometer Hardness in Air			ASTM D573
Shore A, 275°F, 1000 hr	-1.0		
Shore A, 302°F, 168 hr	3.0		
Change in Shore Hardness in Air			ISO 188
Shore A, 275°F, 1000 hr	-1.0		
Shore A, 302°F, 168 hr	3.0		
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	120	%	ASTM D471
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	120	%	ISO 1817
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, @ 206/s			
392°F	200	Pa·s	ISO 11443
392°F	200	Pa·s	ASTM D3835

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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

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