



Sarlink® TPV 3470N

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

Sarlink TPV 3470N is a high performance thermoplastic vulcanizate used in automotive and industrial applications. Sarlink TPV 3470N is a low hardness, low density, RoHS compliant, ANSI STD 61 certified grade suitable for injection molding, blow molding, extrusion, and pipe extrusion. This grade is also available in Black.

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/ANSI/CAN 61 ¹		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Opaque	
Forms	• Pellets		
Processing Method	• Blow Molding • Extrusion	• Injection Molding • Pipe Extrusion	

ASTM & ISO Properties ²

Physical	Nominal Value	Unit	Test Method
Density / 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 ³	239	lbf/in	ASTM D624
Tear Strength - Across Flow	239	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	290	Pa·s	ASTM D3835
392°F	290	Pa·s	ISO 11443

