

Sarlink® TPV 4755B42

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

Sarlink® TPV 4755B42 is a Thermoplastic Vulcanizate (TPV) material. It is available in Asia Pacific, Europe, Latin America, or North America.

General Information			
Appearance	Opaque		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.908	g/cm ³	ASTM D792
--	0.910	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shore A, 5 sec, Extruded	54		
Shore A, 5 sec, Injection Molded	56		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412, ISO 37
Across Flow : 100% Strain	1.80	MPa	
Flow : 100% Strain	2.70	MPa	
Tensile Strength			ASTM D412, ISO 37
Across Flow : Break	5.00	MPa	
Flow : Break	4.30	MPa	
Tensile Elongation			ASTM D412, ISO 37
Across Flow : Break	500	%	
Flow : Break	390	%	
Tear Strength - Across Flow			
--	19.3	kN/m	ASTM D624
-- ¹	19	kN/m	ISO 34-1
Compression Set			ASTM D395, ISO 815
23°C, 22 hr	19	%	
70°C, 22 hr	28	%	
125°C, 70 hr	43	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			
135°C, 1000 hr	-2.0	%	ASTM D573, ISO 188
100% Strain, 135°C, 1000 hr	7.0	%	ASTM D573
150°C, 168 hr	-6.0	%	ASTM D573, ISO 188

100% Strain, 150°C, 168 hr	-1.0	%	ASTM D573
100% Strain 135°C, 1000 hr	7.0	%	ISO 188
100% Strain 150°C, 168 hr	-1.0	%	ISO 188
Change in Ultimate Elongation in Air - Across Flow			ASTM D573, ISO 188
135°C, 1000 hr	-4.0	%	
150°C, 168 hr	-2.0	%	
Change in Durometer Hardness in Air			ASTM D573, ISO 188
Shore A, 135°C, 1000 hr	2.0		
Shore A, 150°C, 168 hr	-2.0		
Change in Volume (125°C, 70 hr, in IRM 903 Oil)			ASTM D471, ISO 1817
	90	%	
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity			
Capillary : 200°C	220	Pa·s	ASTM D3835
Capillary @ 206/s : 200°C	220	Pa·s	ISO 11443
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	3.0	hr	
Rear Temperature	177 to 216	°C	
Middle Temperature	177 to 216	°C	
Front Temperature	177 to 216	°C	
Nozzle Temperature	188 to 221	°C	
Processing (Melt) Temp	182 to 232	°C	
Mold Temperature	10.0 to 65.6	°C	
Back Pressure	0.0689 to 1.03	MPa	
Screw Speed	100 to 200	rpm	
Screw L/D Ratio	25.0:1.0		
NOTE			

1. Method Ba, Angle (Unnicked)

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