

Sarlink® TPV 4765B40

Teknor Apex Company - Thermoplastic Vulcanizate

• Pellets

• Injection Molding

Saturday, September 14, 2024

General Information

Product Description

Forms

Processing Method

The Sarlink TPV 4700 Series are high flow injection molding engineering grades with excellent UV resistance, elasticity, and surface aesthetics designed for demanding automotive applications including window encapsulation and exterior parts. Sarlink® TPV 4765B40 is a black, medium hardness, low density thermoplastic vulcanizate suited for injection molding applications that require superior flow properties.

General			
Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	 Europe Latin America	North America
Additive	UV Stabilizer		
Features	Chemical ResistantGood FlexibilityGood Processability	 High Flow High Heat Resistance Low Compression Set	Low DensityLow Specific GravityMedium Hardness
Uses	Automotive ApplicationsAutomotive Exterior Parts	Automotive Window EncapsulationRubber Replacement	
RoHS Compliance	RoHS Compliant		
Automotive Specifications	 CHRYSLER MS-AR-100 BMV Color: Black GM GMN3901 Color: Black 	• GM GMW15812P-TPV(EPDM +PP) Type 5M • GM Sarlink Color Color: Black	HONDA Unspecified Color: Black
Appearance	• Black	Opaque	

	ASTM & ISO Properties 1		
Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.908	g/cm ³	ASTM D792
Density	0.910	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow: 100% Strain	2.40	MPa	
Flow: 100% Strain	3.00	MPa	
Tensile Stress			ISO 37
Across Flow: 100% Strain	2.40	MPa	
Flow: 100% Strain	3.00	MPa	
Tensile Strength			ASTM D412
Across Flow : Break	5.60	MPa	
Flow: Break	5.00	MPa	
Tensile Stress			ISO 37
Across Flow : Break	5.60	MPa	
Flow: Break	5.00	MPa	
Tensile Elongation			ASTM D412
Across Flow : Break	490	%	
Flow: Break	360	%	
Tensile Elongation			ISO 37
Across Flow: Break	490	%	
Flow: Break	360	%	
Tear Strength - Across Flow	26.3	kN/m	ASTM D624

Revision Date: 11/26/2019

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Elastomers	Nominal Value	Unit	Test Method
Tear Strength - Across Flow ²	26.0	kN/m	ISO 34-1
Compression Set			ASTM D395
23°C, 22 hr	20	%	
70°C, 22 hr	26	%	
125°C, 70 hr	45	%	
Compression Set			ISO 815
23°C, 22 hr	20	%	
70°C, 22 hr	26	%	
125°C, 70 hr	45	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	62		
Shore A, 5 sec, Injection Molded	65		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	62		
Shore A, 5 sec, Injection Molded	65		
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ASTM D573
135°C, 1000 hr	-12	%	
100% Strain, 135°C, 1000 hr	2.0	%	
150°C, 168 hr	-18	%	
100% Strain, 150°C, 168 hr	-2.0	%	
Change in Tensile Strength in Air - Across Flow			ISO 188
135°C, 1000 hr	-12	%	
100% Strain 135°C, 1000 hr	2.0	%	
150°C, 168 hr	-18	%	
100% Strain 150°C, 168 hr	-2.0	%	
Change in Ultimate Elongation in Air - Across Flow			ASTM D573
135°C, 1000 hr	-13	%	
150°C, 168 hr	-17	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
135°C, 1000 hr	-13	%	
150°C, 168 hr	-17	%	
Change in Durometer Hardness in Air			ASTM D573
Shore A, 135°C, 1000 hr	2.0		
Shore A, 150°C, 168 hr	0.0		
Change in Shore Hardness in Air			ISO 188
Shore A, 135°C, 1000 hr	2.0		
Shore A, 150°C, 168 hr	0.0		
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	84	%	ASTM D471
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	84		ISO 1817
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary @ 206/s			
199°C	230		ISO 11443

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Legal Statement

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	Processing Information	
Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer	82	°C
Drying Time - Desiccant Dryer	3.0 to 4.0	hr
Dew Point - Desiccant Dryer	-40	°C
Suggested Shot Size	25 to 50	%
Rear Temperature	180 to 210	°C
Middle Temperature	190 to 220	°C
Front Temperature	200 to 240	°C
Nozzle Temperature	210 to 240	°C
Processing (Melt) Temp	210 to 240	°C
Mold Temperature	10 to 66	°C
Back Pressure	0.0689 to 1.03	MPa
Screw Speed	100 to 200	rpm
Screw L/D Ratio	20.0:1.0	

Notes

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

² Method Ba, Angle (Unnicked)

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