

Sarlink® TPV 4785B40

Teknor Apex Company - Thermoplastic Vulcanizate

Thursday, June 29, 2017

General Information

Product Description

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 4785B40 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 Resistant • Good Flexibility • Good Processability	• High Flow • High Hardness • High Heat Resistance	• Low Compression Set • Low Density • Low Specific Gravity
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Window Encapsulation • Rubber Replacement	
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• GM GMW15812P-TPV(EPDM+PP) • VAG VW501 23 Color: Black Type 8M Color: Black		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.910		ASTM D792
Density	0.910	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow : 100% Strain	696	psi	
Flow : 100% Strain	798	psi	
Tensile Stress			ISO 37
Across Flow : 100% Strain	696	psi	
Flow : 100% Strain	798	psi	
Tensile Strength			ASTM D412
Across Flow : Break	1380	psi	
Flow : Break	1290	psi	
Tensile Stress			ISO 37
Across Flow : Break	1380	psi	
Flow : Break	1290	psi	
Tensile Elongation			ASTM D412
Across Flow : Break	540	%	
Flow : Break	450	%	
Tensile Elongation			ISO 37
Across Flow : Break	540	%	
Flow : Break	450	%	
Tear Strength - Across Flow	230	lbf/in	ASTM D624
Tear Strength - Across Flow ²	230	lbf/in	ISO 34-1

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Revision Date: 6/1/2016

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Elastomers	Nominal Value	Unit	Test Method
Compression Set			ASTM D395
73°F, 22 hr	32	%	
158°F, 22 hr	44	%	
257°F, 70 hr	72	%	
Compression Set			ISO 815
73°F, 22 hr	32	%	
158°F, 22 hr	44	%	
257°F, 70 hr	72	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	84		
Shore A, 5 sec, Injection Molded	86		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	84		
Shore A, 5 sec, Injection Molded	86		
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ASTM D573
275°F, 1000 hr	-4.0	%	
100% Strain, 275°F, 1000 hr	9.0	%	
302°F, 168 hr	-10	%	
100% Strain, 302°F, 168 hr	7.0	%	
Change in Tensile Strength in Air - Across Flow			ISO 188
275°F, 1000 hr	-4.0	%	
100% Strain 275°F, 1000 hr	9.0	%	
302°F, 168 hr	-10	%	
100% Strain 302°F, 168 hr	7.0	%	
Change in Ultimate Elongation in Air - Across Flow			ASTM D573
275°F, 1000 hr	-14	%	
302°F, 168 hr	-18	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
275°F, 1000 hr	-14	%	
302°F, 168 hr	-18	%	
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)	65	%	ASTM D471
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	65	%	ISO 1817
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary @ 206/s			
392°F	190	Pa·s	ISO 11443
392°F	190	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 450	°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	

Notes

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

² Method Ba, Angle (Unnicked)

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