Sarlink[®] TPV 4149D

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

SARLINK® TPV 4100 series are engineered materials designed primarily for demanding automotive and industrial applications. Available in both black and natural, SARLINK® 4149D is a low density, high hardness thermoplastic vulcanizate that exhibits exceptional tensile strength, superior compression set, chemical resistance and high temperature performance. This grade can be processed by injection molding, blow molding and extrusion for applications such as seals, gaskets, chemical resistant hose and tube, boots and bellows.

Material Status	Commercial: Active		
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Availability	Asia Pacific	Latin America	
Availability	Europe	North America	
	 Alcohol Resistant 	 Good Processability 	High Melt Stability
Features	 Chemical Resistant 	 Good Surface Finish 	Low Density
	 Fatigue Resistant 	 Heat Aging Resistant 	 Low Specific Gravity
	 Good Adhesion 	 High Elasticity 	 Medium Heat Resistance
	 Good Moldability 	 High Hardness 	Resilient
Uses	Appliance Components	Blow Molding Applications	Rubber Replacement
	 Automotive Applications 	Grommets	Seals
	 Automotive Exterior Parts 	• Hose	 Valves/Valve Parts
	 Automotive Interior Parts 	Plugs	White Goods & Small
	 Automotive Under the Hood 	Profiles	Appliances
RoHS Compliance	RoHS Compliant		
	CHRYSLER MS-AR-100 GGN		• GM GMW15813 Type 10 Color:
Automotive Specifications	Color: Black	GM GMP.E/P.007 Color: Black	Black
	CHRYSLER MS-AR-100 GGN Color: Natural	GM GMP.E/P.007 Color: Natural	GM GMW15813 Type 10 Color: Natural
Appearance	Black	Natural Color	• Opaque
Forms	Pellets		
Processing Method	Blow Molding	Extrusion	Injection Molding

ASTM & ISO Properties ¹			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940		ASTM D792
Density	0.940	g/cm³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow : 100% Strain	1890	psi	
Flow : 100% Strain	2610	psi	
Tensile Stress			ISO 37
Across Flow : 100% Strain	1890	psi	
Flow : 100% Strain	2610	psi	1
Tensile Strength		_	ASTM D412
Across Flow : Break	3350	psi	
Flow : Break	3130	psi	化分销商
Tensile Stress	THE AX	村了一周斯	-58958 ISO 37
Across Flow : Break	3350	psi Bit 02	
Flow : Break	E B AP 5130	psi	
Tensile Elongation	3350 3430 Listu 19 5350 TEKNOR AP 5/30 TEKNOR AP 5/30 TEKNOR AP 5/30 740		ASTM D412
Across Flow : Break	teknorat 740	%	
Flow : Break	420	%	

Revision Date: 6/1/2016

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Elastomers	Nominal Value	Unit	Test Method
Tensile Elongation			ISO 37
Across Flow : Break	740	%	
Flow : Break	420	%	
Tear Strength - Across Flow	810	lbf/in	ASTM D624
Tear Strength - Across Flow ²	810	lbf/in	ISO 34-1
Compression Set			ASTM D395
73°F, 22 hr	55	%	
158°F, 22 hr	64	%	
257°F, 70 hr	85		
Compression Set			ISO 815
73°F, 22 hr	55	%	
158°F, 22 hr	64		
257°F, 70 hr	85		
lardness	Nominal Value		Test Method
Durometer Hardness		•	ASTM D2240
Shore D, 5 sec, Extruded	47		
Shore D, 5 sec, Injection Molded	51		
Shore Hardness	51		ISO 868
Shore D, 5 sec, Extruded	47		100 000
Shore D, 5 sec, Injection Molded	51		
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow	Nominal Value	Unit	ASTM D573
	-8.0	0/	A31M D573
275°F, 1000 hr	-6.0 25		
100% Strain, 275°F, 1000 hr			
302°F, 168 hr	-15		
100% Strain, 302°F, 168 hr	15	70	100.400
Change in Tensile Strength in Air - Across Flow		0/	ISO 188
275°F, 1000 hr	-8.0		
100% Strain 275°F, 1000 hr	25		
302°F, 168 hr	-15		
100% Strain 302°F, 168 hr	15	%	
Change in Ultimate Elongation in Air - Across Flow		0/	ASTM D573
275°F, 1000 hr	-20		
302°F, 168 hr	-20	%	
Change in Tensile Strain at Break in Air - Across Flow		•	ISO 188
275°F, 1000 hr	-20		
302°F, 168 hr	-20	%	
Change in Durometer Hardness in Air			ASTM D573
Shore D, 275°F, 1000 hr	2.0		
Shore D, 302°F, 168 hr	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0		
Change in Shore Hardness in Air		1 to I	ISO 188
Shore D, 275°F, 1000 hr	2.0	科技	48.5519
Shore D, 302°F, 168 hr	前担20	诺尔爱佩别 02	1-500
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	THAT BEX8	5%展展的问题。	ASTM D471
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	%	ISO 1817
Additional Information	TEK Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, @ 206/s	teknis		
392°F	440	Pa∙s	ISO 11443
392°F	440	Pa∙s	ASTM D3835
			Revision Date: 6/1/2

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Legal Statement

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	Processing Information	
Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0	hr
Rear Temperature	356 to 419	°F
Middle Temperature	356 to 419	°F
Front Temperature	356 to 419	°F
Nozzle Temperature	369 to 428	°F
Processing (Melt) Temp	365 to 428	°F
Mold Temperature	50 to 131	°F
Back Pressure	14.5 to 145	psi
Screw Speed	100 to 200	rpm
Extrusion	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	356 to 392	°F
Cylinder Zone 2 Temp.	356 to 401	°F
Cylinder Zone 3 Temp.	369 to 410	°F
Cylinder Zone 4 Temp.	369 to 410	°F
Melt Temperature	383 to 419	°F
Die Temperature	383 to 419	°F
Take-Off Roll	68 to 122	°F

Extrusion Notes

Screen Pack: 20 to 60 mesh Screw: general purpose Compression Ratio: 3:1

Notes

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

² Method Ba, Angle (Unnicked)

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