



Sarlink® TPV 3790

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

Sarlink TPV 3790 is a high performance thermoplastic vulcanizate used in automotive and industrial applications. Sarlink TPV 3790 is a high hardness, UV resistant, RoHS compliant grade exhibiting superior compression set and chemical resistance. This grade can be processed by injection molding, blow molding, and extrusion.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Good Adhesion • Good Colorability • Good Processability	• Good Weather Resistance • High Hardness • Medium Heat Resistance	• UV Resistant
Uses	• Diaphragms • Gaskets	• Outdoor Applications • Seals	
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• STELLANTIS B62 0300 Color: Black		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Blow Molding	• Extrusion	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow ² (100% Strain)	1020	psi	ISO 37
Tensile Stress - Across Flow ² (Break)	2030	psi	ISO 37
Tensile Elongation - Across Flow ² (Break)	750	%	ISO 37
Compression Set (158°F, 22 hr)	62	%	ISO 815
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 5 sec, Injection Molded	94		
Shore D, 5 sec, Injection Molded	32		

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Processing Information

Injection	Nominal Value	Unit
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
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 Type 2