



Sarlink® TPV 23040N

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

Sarlink® 23040N is a highly engineered thermoplastic vulcanizate that can also be used as a masterbatch compound in demanding automotive and industrial applications. Sarlink® 23040N is a medium hardness, low density, RoHS compliant grade with low compression set, good chemical resistance and high temperature performance. It can be easily processed by injection molding, extrusion, or thermoforming.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Compression Set • Good Processability	• High Heat Resistance • High Tensile Strength • Low Density	• Low Specific Gravity • Medium Hardness
Uses	• Automotive Applications • Automotive Interior Parts • Constant Velocity Joint Boots	• Gaskets • Industrial Applications • Profiles	• Seals
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	• Thermoforming

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.902		ASTM D792
Density	0.900	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
Across Flow : 100% Strain	131	psi	
Flow : 100% Strain	290	psi	
Tensile Stress			ISO 37
Across Flow : 100% Strain	131	psi	
Flow : 100% Strain	290	psi	
Tensile Strength			ASTM D412
Across Flow : Break	566	psi	
Flow : Break	305	psi	
Tensile Stress			ISO 37
Across Flow : Break	566	psi	
Flow : Break	305	psi	
Tensile Elongation			ASTM D412
Across Flow : Break	710	%	
Flow : Break	210	%	
Tensile Elongation			ISO 37
Across Flow : Break	710	%	
Flow : Break	210	%	
Tear Strength - Across Flow	91.4	lbf/in	ASTM D624
Tear Strength - Across Flow ²	91.4	lbf/in	ISO 34-1

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Elastomers	Nominal Value	Unit	Test Method
Compression Set			ISO 815
73°F, 22 hr	20	%	
158°F, 22 hr	32	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 5 sec, Extruded	35		
Shore A, 5 sec, Injection Molded	37		
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	35		
Shore A, 5 sec, Injection Molded	37		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec ⁻¹)	360	Pa·s	ASTM D3835

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 430	°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	
Extrusion	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	360 to 400	°F
Cylinder Zone 2 Temp.	360 to 400	°F
Cylinder Zone 3 Temp.	370 to 410	°F
Cylinder Zone 4 Temp.	370 to 410	°F
Melt Temperature	380 to 420	°F
Die Temperature	380 to 420	°F
Take-Off Roll	70 to 120	°F

Extrusion Notes

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

Notes

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

² Method Ba, Angle (Unnicked)