

Sarlink® TPV X10035B

Teknor Apex Company - Thermoplastic Vulcanizate

Thursday, June 29, 2017

General Information

Product Description

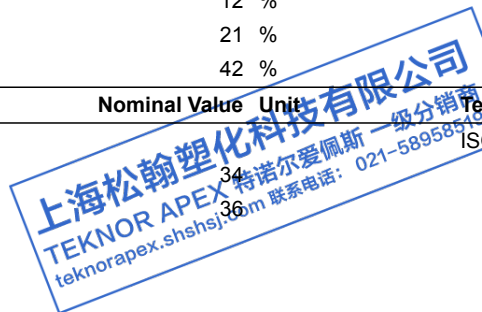
Sarlink TPV X10035B is a high performance thermoplastic vulcanizate used in automotive applications. Sarlink TPV X10035B is a low hardness, low density, RoHS compliant grade exhibiting superior compression set and chemical resistance. This grade is suitable for extrusion processing.

General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> • Asia Pacific • Europe • Latin America • North America
Features	<ul style="list-style-type: none"> • Chemical Resistant • Good Adhesion • Good Color Stability • Good Processability • High Heat Resistance • Low Compression Set • Low Density • Low Fogging • Low Hardness • Low Specific Gravity • Lubricated • UV Resistant • Weather Resistant
Uses	• Automotive Exterior Parts
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• NISSAN Unspecified Color: Black
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.897	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.80 to 0.90		ASTM D1894
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Across Flow : 100% Strain	116	psi	
Flow : 100% Strain	197	psi	
Tensile Stress			ISO 37
Across Flow : Break	319	psi	
Flow : Break	348	psi	
Tensile Elongation			ISO 37
Across Flow : Break	380	%	
Flow : Break	290	%	
Tear Strength - Across Flow ²	60	lbf/in	ISO 34-1
Compression Set			ISO 815
73°F, 22 hr	12	%	
158°F, 22 hr	21	%	
257°F, 70 hr	42	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	34		
Shore A, 5 sec, Injection Molded	36		



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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ISO 188
275°F, 1008 hr	11	%	
100% Strain 275°F, 1008 hr	-6.8	%	
302°F, 168 hr	-3.7	%	
100% Strain 302°F, 168 hr	-12	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
275°F, 1008 hr	44	%	
302°F, 168 hr	17	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 275°F, 1008 hr	1.0		
Shore A, 302°F, 168 hr	-2.7		
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	100	%	ISO 1817
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec ⁻¹)	128	Pa·s	ASTM D3835

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The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	356 to 401	°F
Middle Temperature	356 to 401	°F
Front Temperature	356 to 401	°F
Nozzle Temperature	365 to 410	°F
Processing (Melt) Temp	365 to 410	°F
Mold Temperature	50 to 131	°F
Back Pressure	14.5 to 145	psi
Screw Speed	100 to 200	rpm

Notes

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

² Method Ba, Angle (Unnicked)

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