



Sarlink® TPV X10075B

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

Sarlink 10000 Series are designed for low friction molding applications, requiring a low coefficient of friction against glass or painted steel.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Features	• Chemical Resistant • High Heat Resistance • Low Compression Set • UV Resistant
Uses	• Automotive Exterior Parts
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.936	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.40 to 0.50		ASTM D1894
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Across Flow : 100% Strain	406	psi	
Flow : 100% Strain	508	psi	
Tensile Stress			ISO 37
Across Flow : Break	885	psi	
Flow : Break	783	psi	
Tensile Elongation			ISO 37
Across Flow : Break	490	%	
Flow : Break	410	%	
Tear Strength - Across Flow ²	170	lbf/in	ISO 34-1
Compression Set			ISO 815
73°F, 22 hr	24	%	
158°F, 22 hr	34	%	
257°F, 70 hr	50	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	73		
Shore A, 5 sec, Injection Molded	75		
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ISO 188
275°F, 1008 hr	-15	%	
100% Strain 275°F, 1008 hr	5.0	%	
302°F, 168 hr	-25	%	
100% Strain 302°F, 168 hr	0.0	%	

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
275°F, 1008 hr	-20	%	
302°F, 168 hr	-25	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 275°F, 1008 hr	0.0		
Shore A, 302°F, 168 hr	-3.0		
Change in Volume (257°F, 70 hr, in IRM 903 Oil)	70	%	ISO 1817
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec [^] -1)	190	Pa·s	ASTM D3835

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)