

Sarlink® TPV X10075B

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

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

General Information			
Features	Good Chemical Resistance		
	Good UV Resistance		
	High Heat Resistance		
	Low Compression Set		
Uses	Automotive Exterior Parts		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	73		
Shore A, 5 sec, Injection Molded	75		
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	2.80	MPa	
Flow : 100% Strain	3.50	MPa	
Tensile Stress			ISO 37
Across Flow : Break	6.10	MPa	
Flow : Break	6.10	MPa	
Tensile Elongation			ISO 37
Across Flow : Break	490	%	
Flow : Break	410	%	
Tear Strength - Across Flow	30	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 22 hr	24	%	
70°C, 22 hr	34	%	
125°C, 70 hr	50	%	
Aging	Nominal Value	Unit	Test Method

Change in Tensile Strength in Air - Across Flow			ISO 188
135°C, 1000 hr	-15	%	
100% Strain 135°C, 1000 hr	5.0	%	
150°C, 168 hr	-25	%	
100% Strain 150°C, 168 hr	0.0	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
135°C, 1000 hr	-20	%	
150°C, 168 hr	-25	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 135°C, 1000 hr	0.0		
Shore A, 150°C, 168 hr	-3.0		
Change in Volume (125°C, 70 hr, in IRM 903 Oil)			ISO 1817
	70	%	
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec ⁻¹)	190	Pa · s	ASTM D3835
Injection	Nominal Value	Unit	
Rear Temperature	180 to 205	°C	
Middle Temperature	180 to 205	°C	
Front Temperature	180 to 205	°C	
Nozzle Temperature	185 to 210	°C	
Processing (Melt) Temp	185 to 210	°C	
Mold Temperature	10.0 to 55.0	°C	
Back Pressure	0.100 to 1.00	MPa	
Screw Speed	100 to 200	rpm	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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