

Sarlink® TPV X17180B

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

The Sarlink 17100 Series are super high flow injection molding grades with excellent UV resistance for exterior applications.

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
Specific Gravity	0.913	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 5 sec	82		
Shore A, 15 sec	80		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Across Flow : 100% Strain	3.13	MPa	
Flow : 100% Strain	3.50	MPa	
Tensile Strength			ISO 37
Across Flow : Break	5.40	MPa	
Flow : Break	5.50	MPa	
Tensile Elongation			ISO 37
Across Flow : Break	460	%	
Flow : Break	400	%	
Tear Strength ¹			ISO 34-1
Across Flow	28	kN/m	
Flow	27	kN/m	
Compression Set			ISO 815
23°C, 22 hr	31	%	
70°C, 22 hr	43	%	
125°C, 70 hr	64	%	
Aging	Nominal Value	Unit	Test Method

Change in Tensile Strength in Air - Across Flow (150°C, 168 hr)	-14	%	ISO 37
Change in Tensile Modulus in Air - Across Flow (150°C, 168 hr)	4.3	%	ISO 37
Change in Ultimate Elongation in Air - Across Flow (150°C, 168 hr)	-27	%	ISO 37
Change in Shore Hardness in Air			ISO 868
Shore A, 150°C, 168 hr ²	2.4		
Shore A, 150°C, 168 hr ³	1.8		

Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, 206 1/s (200°C)	188	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

NOTE	
1.	Method Ba, Angle (Unnicked)
2.	15 sec delay
3.	5 sec delay

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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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