

Sarlink® TPV X17165B

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
Density	0.920	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	65		
Shore A, 5 sec, Injection Molded	67		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Across Flow : 100% Strain	2.10	MPa	
Flow : 100% Strain	2.40	MPa	
Tensile Strength			ISO 37
Across Flow : Break	4.20	MPa	
Flow : Break	4.10	MPa	
Tensile Elongation			ISO 37
Across Flow : Break	450	%	
Flow : Break	380	%	
Tear Strength - Across Flow ¹	20	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 22 hr	20	%	
70°C, 22 hr	32	%	
125°C, 70 hr	44	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ISO 188

135°C, 1000 hr	-10	%	
150°C, 168 hr	-15	%	
Change in Tensile Modulus in Air - Across Flow			ISO 188
135°C, 1000 hr	5.0	%	
150°C, 168 hr	0.0	%	
Change in Ultimate Elongation in Air - Across Flow			ISO 188
135°C, 1000 hr	-18	%	
150°C, 168 hr	-20	%	
Change in Shore Hardness in Air			ISO 188
135°C, 1000 hr	2.0		
150°C, 168 hr	0.0		
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, 206 1/s (200°C)	200	Pa·s	ISO 11443
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)

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