



Sarlink® TPV 17175B (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

The Sarlink 17100 Series is the latest generation of super high-flow TPV materials ensuring the best in class surface appearance for injection molded parts. Sarlink 17175B is a medium hardness, low density, high performance thermoplastic vulcanizate that exhibits excellent UV resistance, elasticity, and surface aesthetics designed for demanding automotive applications including window encapsulation and exterior parts.

General

Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Adhesion • Good Flexibility • Good Moldability • Good Surface Finish	• High Flow • High Heat Resistance • Low Compression Set • Low Density • Low Specific Gravity	• Medium Hardness • Resilient • UV Resistant
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Window Encapsulation • Rubber Replacement	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.923		ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Across Flow : 100% Strain	384	psi	
Flow : 100% Strain	458	psi	
Tensile Strength			ISO 37
Across Flow : Break	740	psi	
Flow : Break	754	psi	
Tensile Elongation			ISO 37
Across Flow : Break	490	%	
Flow : Break	430	%	
Tear Strength ²			ISO 34-1
Across Flow	141	lbf/in	
Flow	132	lbf/in	
Compression Set			ISO 815
73°F, 22 hr	26	%	
158°F, 22 hr	34	%	
257°F, 70 hr	48	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 5 sec	76		
Shore A, 15 sec	74		

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow (302°F, 168 hr)	-20	%	ISO 37
Change in Tensile Modulus in Air - Across Flow (302°F, 168 hr)	3.4	%	ISO 37
Change in Ultimate Elongation in Air - Across Flow (302°F, 168 hr)	-25	%	ISO 37
Change in Shore Hardness in Air			ISO 868
Shore A, 302°F, 168 hr ³	0.90		
Shore A, 302°F, 168 hr ⁴	1.3		
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, 206 1/s (392°F)	175	Pa·s	ASTM D3835

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer	180	°F
Drying Time - Desiccant Dryer	3.0 to 4.0	hr
Dew Point - Desiccant Dryer	-40	°F
Rear Temperature	356 to 410	°F
Middle Temperature	374 to 428	°F
Front Temperature	392 to 464	°F
Nozzle Temperature	410 to 464	°F
Processing (Melt) Temp	410 to 464	°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)

³ 5 sec delay

⁴ 15 sec delay