Sarlink® TPV 17165B

Teknor Apex Company - Thermoplastic Vulcanizate

Saturday, September 14, 2024

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 17165B 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	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Adhesion • Good Flexibility • Good Moldability • Good Surface Finish	• High Elasticity • High Flow • High Heat Resistance • Low Compression Set • Low Density	• Low Specific Gravity • Medium Hardness • UV Resistant
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Window Encapsulation • Rubber Replacement	
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• VAG VW501 23 Color: Black		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm³	ISO 1183
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 [2]	20.0	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 22 hr	20	%	
70°C, 22 hr	32	%	
125°C, 70 hr	44	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A, 5 sec, Extruded	65		
Shore A, 5 sec, Injection Molded	67		

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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)	175	Pa·s	ISO 11443

Legal Statement

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer	82	°C
Drying Time - Desiccant Dryer	3.0 to 4.0	hr
Dew Point - Desiccant Dryer	-40	°C
Rear Temperature	180 to 210	°C
Middle Temperature	190 to 220	°C
Front Temperature	200 to 240	°C
Nozzle Temperature	210 to 240	°C
Processing (Melt) Temp	210 to 240	°C
Mold Temperature	10 to 55	°C
Back Pressure	0.100 to 1.00	MPa
Screw Speed	100 to 200	rpm

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Method Ba, Angle (Unnicked)

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