



Sarlink® TPV 17880B XRD9 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

The Sarlink® 17800B series are self-lubricating TPVs designed for adhesion to EPDM and TPV. They are available from 55 to 80 Shore A hardness to meet a variety of requirements. They have superior UV resistance and surface aesthetics to meet the demanding requirements of automotive exterior applications.

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 Elasticity • High Flow • High Heat Resistance	• Low Density • Low Specific Gravity • Medium Hardness • UV Resistant
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Window Encapsulation • Bonding	• Corner Molding • 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	0.911	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain)	450	psi	ISO 37
Tensile Strength - Across Flow (Break)	1090	psi	ISO 37
Tensile Elongation - Across Flow (Break)	660	%	ISO 37
Tear Strength - Across Flow ²	171	lbf/in	ISO 34-1
Compression Set			ISO 815
73°F, 22 hr	40	%	
158°F, 22 hr	53	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec, Injection Molded)	79		ISO 868
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°F	ISO 812
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (212°F, 1008 hr)	< 25	%	ISO 188
Change in Ultimate Elongation in Air (212°F, 1008 hr)	< 25	%	ISO 188
Change in Durometer Hardness in Air Shore A, 212°F, 1008 hr	< 1.0		ISO 188
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, 206 1/s (392°F)	325	Pa·s	ISO 11443

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Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	2.0	hr
Rear Temperature	374 to 419	°F
Middle Temperature	410 to 473	°F
Front Temperature	428 to 500	°F
Nozzle Temperature	428 to 500	°F
Processing (Melt) Temp	428 to 500	°F
Mold Temperature	86 to 140	°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)