

Sarlink® TPV X9156B

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

SARLINK X9165B is a high performance thermoplastic vulcanizate engineered for use in demanding building and construction applications. SARLINK X9165B is a black, medium hardness, low density grade possessing exceptional chemical resistance, compression set and low temperature performance. It can be easily processed by injection and 2k injection molding with typical applications including gaskets, seals, profiles, and tubing; complies with EN 681-2 for pipe seals.

General Information			
Features	Low Specific Gravity		
	Low density		
	High elasticity		
	Fatigue resistance		
	Heat resistance, medium		
	Medium hardness		
Uses	Washer		
	Industrial application		
	Seals		
	Rubber substitution		
	Profile		
Agency Ratings	EN 681-2-2000		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Multiple injection molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.957	g/cm³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shaw A	65		ASTM D2240
Shaw A, 5 seconds, extruded	66		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow ¹ (Break)	4.50	MPa	ISO 37
Tensile Elongation - Across Flow ² (Break)	550	%	ISO 37
Compression Set			ISO 815
-10°C, 72 hr	46	%	ISO 815

23°C, 72 hr	24	%	ISO 815
70°C, 22 hr	35	%	ISO 815
100°C, 24 hr	27	%	ISO 815
Stress relaxation ³			
100 days : 23°C	26	%	
7 days : 23°C	21	%	

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (70°C, 168 hr)	0.10	%	ISO 188
Change in Tensile Strain at Break in Air (70°C, 168 hr)	-0.70	%	ISO 188
Change in Shore Hardness in Air (Shao A, 70°C, 168 hr)	-0.20		ISO 188
Change in Volume			ISO 1817
70°C, 168 hr, in water	7.0	%	ISO 1817
100°C, 72 hr ⁴	23	%	ISO 1817

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-58.9	°C	ASTM D746

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec ⁻¹)	280	Pa · s	ISO 11443

Legal statement

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Injection	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	2.0 - 3.0	hr
Rear Temperature	175 - 185	°C
Middle Temperature	180 - 205	°C
Front Temperature	195 - 210	°C
Nozzle Temperature	200 - 230	°C
Processing (Melt) Temp	200 - 230	°C
Mold Temperature	10 - 30	°C
Injection Rate	Fast	
Back Pressure	0.500 - 1.00	MPa
Screw Speed	100 - 200	rpm
Cushion	3.00 - 8.00	mm

NOTE

1. Type 2
2. Type 2

3.	ISO 3348
4.	IRM 1 oil

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