

Sarlink® TPV X9156B

Teknor Apex Company - Thermoplastic Vulcanizate

Friday, June 30, 2017

General Information

Product Description

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

Material Status	• Commercial: Active		
Availability	• Europe		
Features	• Fatigue Resistant • High Elasticity	• Low Density • Low Specific Gravity	• Medium Hardness • Medium Heat Resistance
Uses	• Gaskets • Industrial Applications	• Profiles • Rubber Replacement	• Seals
Agency Ratings	• EN 681-2-2000		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding	• Multi Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.957	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow ² (Break)	653	psi	ISO 37
Tensile Elongation - Across Flow ² (Break)	550	%	ISO 37
Compression Set			ISO 815
14°F, 72 hr	46	%	
73°F, 72 hr	24	%	
158°F, 22 hr	35	%	
212°F, 24 hr	27	%	
Stress Relaxation ³			
100 days : 73°F	26	%	
7 days : 73°F	21	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	55		ASTM D2240
Shore Hardness (Shore A, 5 sec)	55		ISO 868
IRHD Hardness	60		ASTM D1415
IRHD Hardness	60		ISO 48
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-74.0	°F	ASTM D746
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (158°F, 168 hr)	0.70	%	ISO 188
Change in Tensile Strain at Break in Air 158°F, 168 hr	0.70	%	ISO 188
Change in Shore Hardness in Air Shore A, 158°F, 168 hr	-0.20		ISO 188

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Revision Date: 4/7/2017

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Aging	Nominal Value	Unit	Test Method
Change in Volume			ISO 1817
158°F, 168 hr, in Water	7.0	%	
212°F, 72 hr ⁴	23	%	

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec ⁻¹)	280	Pa·s	ISO 11443

Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	347 to 365	°F
Middle Temperature	356 to 401	°F
Front Temperature	383 to 410	°F
Nozzle Temperature	392 to 446	°F
Processing (Melt) Temp	392 to 446	°F
Mold Temperature	50 to 86	°F
Injection Rate	Fast	
Back Pressure	72.5 to 145	psi
Screw Speed	100 to 200	rpm
Cushion	0.118 to 0.315	in

Notes

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

² Type 2

³ ISO 3348

⁴ IRM 1 oil

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