

Softflex® 3910

Thermoplastic Elastomer Alloy

Network Polymers, Inc.

Message:

Softflex® 3910 is a Thermoplastic Elastomer Alloy (TPE Alloy) product. It is available in North America. Typical application: Engineering/Industrial Parts.

Characteristics include:

REACH Compliant

RoHS Compliant

WEEE Compliant

General Information			
Uses	Overmolding		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹			ASTM D1238
200°C/5.0 kg	2.6	g/10 min	
230°C/21.6 kg	0.90	g/10 min	
Molding Shrinkage			ASTM D955
Flow : 23°C, 3.18 mm, Injection Molded	1.9	%	
Across Flow : 23°C, 3.18 mm, Injection Molded	1.7	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, 23°C, 3.18 mm, Injection Molded	90		
Shore A, 10 sec, 23°C, 3.18 mm, Injection Molded	88		
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (23°C, 1000 Cycles, 1000 g, H-22 Wheel)	0.248	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (100% Strain)	14	%	ASTM D412
Tensile Stress			ASTM D412
50% Strain	7.08	MPa	
100% Strain	8.03	MPa	
300% Strain	10.3	MPa	
Tensile Strength ² (Yield)	10.4	MPa	ASTM D412
Tensile Elongation (Break)	330	%	ASTM D412

Tear Strength (23°C, 3.18 mm)	53.4	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr ³	47	%	
70°C, 22 hr	94	%	
100°C, 22 hr	96	%	
Impact	Nominal Value	Unit	Test Method
Gardner Impact (-30°C, 3.18 mm, Injection Molded)	14.3	J	ASTM D5420
Additional Information	Nominal Value		
Overmold Bonding	ABS, PC, ABS/PC, PPO		
NOTE			
1.	Procedure A		
2.	510 mm/min		
3.	Method B		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

