

## Diamond Polymers Softflex® 1302 Thermoplastic Elastomer Alloy

Category : Polymer , Thermoplastic , Elastomer , TPE

**Material Notes:**

Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Diamond-Polymers-Softflex-1302-Thermoplastic-Elastomer-Alloy.php](http://www.lookpolymers.com/polymer_Diamond-Polymers-Softflex-1302-Thermoplastic-Elastomer-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.904 g/cc	0.904 g/cc	ASTM D792
Linear Mold Shrinkage	0.038 cm/cm	0.038 in/in	Transverse to Flow; ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
	0.0413 cm/cm	0.0413 in/in	Direction of Flow; ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Melt Flow	0.50 g/10 min	0.50 g/10 min	ASTM D1238
	@Load 1.00 kg, Temperature 235 °C	@Load 2.20 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	68 - 78	68 - 78	ASTM D2240
Tensile Strength, Yield	3.50 MPa	508 psi	chs 20 in/min; 100% elongation; ASTM D412
	4.04 MPa	586 psi	chs 20 in/min; 300% elongation; ASTM D412
	37.1 MPa	5380 psi	chs 20 in/min; 50% elongation; ASTM D412
	37.11 MPa	5382 psi	chs 20 in/min; ASTM D412
Elongation at Break	295 %	295 %	ASTM D412
Flexural Modulus	0.04064 GPa	5.894 ksi	ASTM D790
Gardner Impact	>= 36.2 J	>= 26.7 ft-lb	ASTM D5420
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Taber Abrasion, mg/1000 Cycles	0.2625	0.2625	H22 Wheel; ASTM D3389
	@Load 1.00 kg	@Load 2.20 lb	
Compression Set	15.5 %	15.5 %	ASTM D395
	@Temperature 22.8 °C, Time 79200 sec	@Temperature 73.0 °F, Time 22.0 hour	

Mechanical Properties	Metric	English	Comments
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	ASTM D395

## Contact Songhan Plastic Technology Co.,Ltd.

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