

## Network Polymers Softflex® 0470

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

### Material Notes:

Description: Softflex® Thermoplastic Elastomer Alloy Information provided by Network Polymers Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Network-Polymers-Softflex-0470.php](http://www.lookpolymers.com/polymer_Network-Polymers-Softflex-0470.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.972 g/cc	0.972 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.016 - 0.033 cm/cm	0.016 - 0.033 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.017 - 0.029 cm/cm	0.017 - 0.029 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
Melt Flow	1.0 g/10 min @Load 1.00 kg, Temperature 235 °C	1.0 g/10 min @Load 2.20 lb, Temperature 455 °F	Procedure A Condition Q; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	35 - 45	35 - 45	10 second dwell; ASTM D2240
	40 - 50	40 - 50	Instantaneous; ASTM D2240
Tensile Strength, Yield	4.21 MPa	610 psi	chs 20 in/min; ASTM D412
Elongation at Break	680 %	680 %	ASTM D412
Tensile Modulus	0.009694 GPa	1.406 ksi	ASTM D412
50% Modulus	0.000830 GPa	0.120 ksi	ASTM D412
100% Modulus	0.00118 GPa	0.171 ksi	ASTM D412
300% Modulus	0.00214 GPa	0.310 ksi	ASTM D412
Flexural Modulus	0.00592 GPa	0.859 ksi	ASTM D790
Gardner Impact	>= 36.2 J	>= 26.7 ft-lb	ASTM D5420
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tear Strength	16.4 kN/m	93.6 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	1.64	1.64	H22 Wheel 1000 g load/1000 cycles; ASTM D3389

Compression Set Mechanical Properties	24.1 % Metric	24.1 % English	Method B, 22 hours at 25% deflection @Temperature 158 °F; ASTM D395
	65.7 % @Temperature 70.0 °C	65.7 % @Temperature 158 °F	22 hours at 25% deflection; ASTM D395, Method B,
	85.9 % @Temperature 100 °C	85.9 % @Temperature 212 °F	22 hours at 25% deflection; ASTM D395, Method B,
Tensile Set	105 %	105 %	100% strain; ASTM D412

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China