

## Overview of materials for Chlorosulfonated Polyethylene Rubber

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Chlorosulfonated Polyethylene Rubber

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Chlorosulfonated Polyethylene Rubber". Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Overview-of-materials-for-Chlorosulfonated-Polyethylene-Rubber.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Chlorosulfonated-Polyethylene-Rubber.php)

Physical Properties	Metric	English	Comments
Density	1.07 - 1.70 g/cc	0.0387 - 0.0614 lb/in <sup>3</sup>	Average value: 1.24 g/cc Grade Count:20
pH	12.0	12.0	Average value: 12.0 Grade Count:4
Viscosity	45.0 - 260 cP	45.0 - 260 cP	Average value: 148 cP Grade Count:3
Mooney Viscosity	15.0 - 96.0	15.0 - 96.0	Average value: 49.6 Grade Count:40
Thickness	800 - 1590 microns	31.5 - 62.5 mil	Average value: 1330 microns Grade Count:3

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	38.0 - 105	38.0 - 105	Average value: 70.8 Grade Count:50
Tensile Strength, Ultimate	7.40 - 31.8 MPa	1070 - 4610 psi	Average value: 19.3 MPa Grade Count:42
Tensile Strength, Yield	1.00 - 18.9 MPa	145 - 2740 psi	Average value: 9.12 MPa Grade Count:41
Elongation at Break	50.0 - 750 %	50.0 - 750 %	Average value: 331 % Grade Count:42
	500 - 650 % @Temperature 50.0 - 50.0 °C	500 - 650 % @Temperature 122 - 122 °F	Average value: 575 % Grade Count:2
Resilience	55.0 - 75.0	55.0 - 75.0	Average value: 63.1 Grade Count:12
Tear Strength Test	153 - 337	153 - 337	Average value: 271 Grade Count:8
Graves Tear Strength	28.0 - 220 kN/m	160 - 1260 pli	Average value: 112 kN/m Grade Count:15
Compression Set	8.00 - 50.0 %	8.00 - 50.0 %	Average value: 29.7 % Grade Count:10
	9.00 - 69.0 % @Temperature 70.0 -	9.00 - 69.0 % @Temperature 158 -	Average value: 38.9 % Grade Count:22

Mechanical Properties	100 °C Metric	212 °F English	Comments
	60.0 - 60.0 %	60.0 - 60.0 %	
	@Temperature 125 - 125 °C	@Temperature 257 - 257 °F	Average value: 38.9 % Grade Count:1
	60.0 - 60.0 %	60.0 - 60.0 %	
	@Time 79200 - 79200 sec	@Time 22.0 - 22.0 hour	Average value: 38.9 % Grade Count:1

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 - 204 °C	257 - 400 °F	Average value: 136 °C Grade Count:13
Minimum Service Temperature, Air	-65.0 - -2.00 °C	-85.0 - 28.4 °F	Average value: -37.1 °C Grade Count:29
Brittleness Temperature	-65.0 - -2.00 °C	-85.0 - 28.4 °F	Average value: -37.1 °C Grade Count:18
Clash Berg Stiffness Temperature	-26.0 - 7.00 °C	-14.8 - 44.6 °F	Average value: -17.6 °C Grade Count:15
Flash Point	260 °C	500 °F	Average value: 260 °C Grade Count:10

## 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