

Chlorosulfonated Polyethylene Rubber (CM, CSM)

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

Material Notes:

The chlorine (in CM) or chlorine and chlorosulfonyl (CSM) groups prevent the crystallization that occurs on unmodified polyethylene.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chlorosulfonated-Polyethylene-Rubber-CM-CSM.php

Physical Properties	Metric	English	Comments
Density	1.45 - 1.60 g/cc	0.0524 - 0.0578 lb/in ³	Compounded

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40 - 95	40 - 95	Depends on compounding
Tensile Strength, Ultimate	21.0 MPa	3050 psi	Compounded Tire
Elongation at Break	200 - 500 %	200 - 500 %	

Thermal Properties	Metric	English	Comments
CTE, linear	486 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	270 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	120 $^{\circ}\text{C}$	248 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-30.0 $^{\circ}\text{C}$	-22.0 $^{\circ}\text{F}$	

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