

## Thermoseal ML-5270 PTG Gasketing

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

### Material Notes:

Thermoseal ML-5270 is a high performance synthetic fiber and polychloroprene binder gasket material that is resistant to refrigerants and oil mixtures. Its unique Multi-Layer Technology structure provides exceptional low flange pressure sealability with exceptional torque retention. Multi-Layer Technology sheet products consist of a reinforced high density core with conformable sealing layers on each side. Typical applications include gaskets in hermetic and semi-hermetic compressors and oil pan gaskets in heavy-duty diesel engines with intermittent operating temperatures up to 350° F (177° C). Data for this material is available for download into ANSYS xml format: C5270; 1/32" (right click and "save as" to download) Information provided by Thermoseal Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Thermoseal-ML-5270-PTG-Gasketing.php](http://www.lookpolymers.com/polymer_Thermoseal-ML-5270-PTG-Gasketing.php)

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in <sup>3</sup>	ASTM F1315
Thickness	1588 microns	62.52 mil	Thickness tested

Mechanical Properties	Metric	English	Comments
Tensile Strength	15.5 MPa	2250 psi	ASTM F152

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	177 °C	350 °F	intermittent

Descriptive Properties	Value	Comments
Compressibility	8-14 percent	ASTM F36J
Creep	<30%	1/32", ASTM F38B
Pressure	<800 psi	
Recovery	>40 percent	ASTM F36J
Sealability	<0.20 ml/hr	ASTM F37
Thickness Increase	<30%	After immersion in Oil IRM903 for 5 hrs. at 300° F (149°), ASTM F146
	0-5%	After immersion in ASTM Oil #1 for 5 hrs. at 300° F (149° C), After immersion in ASTM Oil #1 for 5 hrs. at 300° F (149° C)
	5-10%	After immersion in Fuel A for 5 hrs. at 73° F (23° C), ASTM F146

Descriptive Properties	Case	Value	Comments
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, After immersion in Fuel B for 5 hrs. at 73° (23° C)

## Contact Songhan Plastic Technology Co.,Ltd.

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