

Compound
23828
 ETHYLENE PROPYLENE
 80 DUROMETER
 PURPLE COLOR

PRODUCT DATA SHEET

Compound 23828 is an 80 durometer purple colored EPDM elastomer. It exhibits good resistance to compression set and will remain non brittle at very low temperatures.

This compound will meet or exceed the specifications listed and has the following physical properties:

- ASTM D2000 2 AA 815 A13 EA14 F17
- 2 BA 815 F17
- 4 BA 815 A14 F17
- 7 CA 815 A25 B35 EA14 F17 F18
- 8 CA 815 A25 B35 EA14 F17



Original Properties

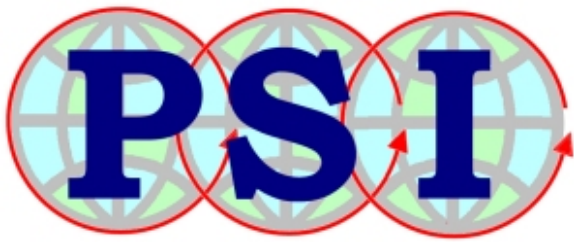
Modulus @ 100% Elongation	845 psi	5.8 MPa
Tensile Strength	1,634 psi	11.3 MPa
Ultimate Elongation	182 %	
Hardness, Shore A	78 Durometer	
Specific Gravity	1.12 grams/cc	
Brittleness Temperature	< -85 °F	< -65 °C
TR-10 Temperature	-44 °F	-42 °C
Tear Resistance, Die B	96.0 ppi	16.8 kN/m
Tear Resistance, Die C	140.0 ppi	24.5 kN/m

Compression Set

Solid: 22 hrs @ 158°F (70°C)	7.9 %
Solid: 22 hrs @ 212°F (100°C)	7.1 %
Solid: 22 hrs @ 257°F (125°C)	7.2 %
Solid: 22 hrs @ 302°F (150°C)	10.7 %
Solid: 70 hrs @ 212°F (100°C)	7.9 %
Plied: 22 hrs @ 158°F (70°C)	9.0 %
Plied: 22 hrs @ 212°F (100°C)	7.1 %
Plied: 22 hrs @ 257°F (125°C)	13.9 %
Plied: 22 hrs @ 302°F (150°C)	17.5 %
Plied: 70 hrs @ 212°F (100°C)	15.1 %

HEAT AGED: 70 hrs @ 158°F (70°C)

Change - Tensile Strength	+ 8.8 %
Change - Elongation	- 7.7 %
Change - Hardness, Shore A	+ 2



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Change - Tensile Strength	+ 15.5 %
Change - Elongation	- 1.6 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 1.2 %
Change - Elongation	- 15.4 %
Change - Hardness, Shore A	+ 2

DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 7.8 %
Change - Elongation	+ 2.7 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.3 %

DOT #3 BRAKE FLUID : AGED 300 hrs @ 248°C (120°F)

Change - Tensile Strength	+ 6.5 %
Change - Elongation	- 9.0 %
Change - Hardness, Shore A	0
Change - Volume	+ 3.0 %

DOT #4 BRAKE FLUID : AGED 300 hrs @ 248°C (120°F)

Change - Tensile Strength	+ 8.3 %
Change - Elongation	- 4.4 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.8 %

DOT #5 BRAKE FLUID : AGED 300 hrs @ 248°F (120°C)

Change - Tensile Strength	- 0.7 %
Change - Elongation	- 17.6 %
Change - Hardness, Shore A	0
Change - Volume	+ 2.9 %