RUBBERCRAFT

Compound Technical Data Sheet

8452M EPDM

PRODUCT DESCRIPTION

Rubbercraft compound number 8452M is a molded grade, 50 ±5 durometer hardness, ethylene propylene diene monomer rubber compound that is specifically formulated for low compression set and higher temperature resistance. Compound number 8452M has been designed to operate for extended duration at a temperature range of -40°F to +250°F, and up to +350°F for limited duration.

TYPICAL PROPERTIES

Property	Test Method	Typical Values
Durometer hardness, shore A	ASTM D2240	50 ±5
Tensile strength, PSI	ASTM D412	2500
Elongation, %	ASTM D412	400
Tension @ 200% Elongation, PSI	ASTM D412	450
Tear Resistance, ppi	ASTM D624	200
Specific Gravity	ASTM D297	1.03 ±.03
Compression Set %	ASTM D395 Method B 22 Hours @ 212° F (100°C)	<20%

The information contained in this document is based on reliable sources, test data and our experience. We believe it to be accurate. However, it is intended only as a guide to use at your discretion and should not be used to determine specifications. The performance of this product depends on many factors not necessarily in Rubbercraft's control. Rubbercraft is not responsible for suitability. Therefore, it is strongly recommended that you test components using this product in your assembly, using your equipment, materials, and manpower. There are no warranties regarding the data presented in this document. Rubbercraft assumes no liability for special or consequential damages. .

8452M EPDM

SUPPLEMENTAL HIGH TEMPERATURE ENDURANCE INFORMATION FOR 8452M

Rubbercraft compound number 8452M degrades with prolonged high temperature exposure. This degradation is slowed significantly if it is in an inert (vacuum, nitrogen, etc) environment.

Property	Test Method	Typical Values
Oven (air) Aged properties after 22 hours @ 250°F	ASTM D573	--
Durometer Hardness Change	ASTM D2240	+2
Tensile Strength Change, %	ASTM D412	+5%
Elongation Change, %	ASTM D412	+3%

Property	Test Method	Typical Values
Oven (air) Aged properties after 48 hours @ 350°F	ASTM D573	--
Durometer Hardness Change	ASTM D2240	+10
Tensile Strength Change, %	ASTM D412	-30%
Elongation Change, %	ASTM D412	-20%

Property	Test Method	Typical Values
Vacuum Oven Aged properties after 120 hours @ 350°F	ASTM D573	--
Durometer Hardness Change	ASTM D2240	+8
Tensile Strength Change, %	ASTM D412	-35%
Elongation Change, %	ASTM D412	-30%