



# EPDM 644

## Hydrocarbon Rubber

### Overview

EPDM 644 is a semi-amorphous ethylene-propylene-diene terpolymer (EPDM) grade designed for molded and extruded applications. It is ideally suited for general-purpose gaskets and moldings, extruded profiles and hoses. The combination of medium viscosity and low crystallinity allows for good balance of processability, low temperature properties, and product performance.

Main Characteristics:

- Medium diene
- Medium molecular weight

Applications:

- General purpose gaskets and moldings
- Extruded profiles and hoses

Notes:

- Can be used in contact with all foods except water in oil emulsions, high or low fat, and low moisture fats and oil.
- Adhesives only.

Complies with

- U.S. FDA 21 CFR 177.2600
- U.S. FDA 21 CFR 177.1520
- U.S. FDA 21 CFR 175.105
- U.S. FDA 21 CFR 177.1210

Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.860 g/cm <sup>3</sup>	0.860 g/cm <sup>3</sup>	ASTM D297
Ethylene Content	54.0 to 56.0 wt%	54.0 to 56.0 wt%	ASTM D3900
Ethylidene Norbornene (ENB) Content	4.5 to 5.3 wt%	4.5 to 5.3 wt%	ASTM D6047
Mooney Viscosity (ML 1+4, 257°F (125°C))	36 to 44 MU	36 to 44 MU	ASTM D1646
Ash Content	< 0.1 wt%	< 0.1 wt%	ASTM D5667
Molecular Weight Distribution	Medium	Medium	Dow Method
Propylene Content	40.0 wt%	40.0 wt%	ASTM D3900
Residual Transition Metal	< 10 ppm	< 10 ppm	Dow Method
Volatile Matter	< 0.40 wt%	< 0.40 wt%	Dow Method

### Additional Information

Storage and Handling:

The quality of EPDM products may be affected by exposure to artificial or natural light. This product should be stored indoors in its original packaging and out of direct sunlight.

### Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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## Additional Information

### North America

U.S. & Canada: 1-800-441-4369  
1-989-832-1426  
Mexico: +1-800-441-4369

### Latin America

Argentina: +54-11-4319-0100  
Brazil: +55-11-5188-9000  
Colombia: +57-1-219-6000  
Mexico: +52-55-5201-4700

### Europe/Middle East

Italy: +800-3694-6367  
+31-11567-2626  
+800-783-825

### South Africa

+800-99-5078

### Asia Pacific

+800-7776-7776  
+603-7965-5392

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