

# EPDM 643

Hydrocarbon Rubber

The Dow Chemical Company

Message:

EPDM 643 is an amorphous and low diene-containing ethylene-propylene-diene terpolymer (EPDM) and is suitable for heat resistant peroxide cured moldings. EPDM 643 can be blended with butyl rubber to improve processing and vulcanizate properties of automotive and bicycle tire innertubes.

Main Characteristics:

- Amorphous
- Low diene
- Good heat resistance

Applications:

- Blend component with butyl rubber in innertubes
- Heat resistant hoses and belts

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.

General Information			
Agency Ratings	FDA 21 CFR 175.105		
	FDA 21 CFR 175.1520		
	FDA 21 CFR 177.1210		
	FDA 21 CFR 177.2600		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.860	g/cm³	ASTM D297
Mooney Viscosity (ML 1+4, 125°C)	36 - 44	MU	ASTM D1646
Ethylene Content	53.0 - 57.0	wt%	ASTM D3900
Ethylidene Norbornene (ENB) Content	1.4 - 2.2	wt%	ASTM D6047
Propylene content	43.2	wt%	ASTM D3900
Residual conversion metal		ppm	Internal method
Molecular Weight Distribution	Medium		Internal method
Ash Content		wt%	ASTM D5667
Volatile Matter		wt%	Internal 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.

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