

EPDM 644

Hydrocarbon Rubber

The Dow Chemical Company

Message:

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.

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/cm ³	ASTM D297
Mooney Viscosity (ML 1+4, 125°C)	36 - 44	MU	ASTM D1646
Ethylene Content	54.0 - 56.0	wt%	ASTM D3900
Ethylidene Norbornene (ENB) Content	4.5 - 5.3	wt%	ASTM D6047
Propylene content	40.0	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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