

EPDM 745

The Dow Chemical Company - Hydrocarbon Rubber

General Information

Product Description

EPDM 745P is a semi-crystalline, very low diene-containing ethylene-propylene-diene terpolymer (EPDM) and has a narrow molecular weight distribution. It is designed for property modification of thermoplastics such as polyethylene and polypropylene and can be used in peroxide cured rubber compounds.

Main Characteristics:

- Semi-crystalline
- Very low diene
- Medium molecular weight and narrow molecular weight distribution
- Heat and UV stable

Applications:

- Plastics modification such as polyethylene or polypropylene
- Peroxide cured moldings

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 175.1520
- U.S. FDA 21 CFR 175.105
- U.S. FDA 21 CFR 177.1210
- EU, No 10/2011

Consult the regulations for complete details.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	
	• Europe	• North America	
Agency Ratings	• EU No 10/2011	• FDA 21 CFR 175.1520	• FDA 21 CFR 177.2600
	• FDA 21 CFR 175.105	• FDA 21 CFR 177.1210	
Forms	• Pellets		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.880	g/cm ³	ASTM D297
Mooney Viscosity (ML 1+4, 125°C)	41 to 49	MU	ASTM D1646
Ethylene Content	68.0 to 72.0	wt%	ASTM D3900
Ethylidene Norbornene (ENB) Content	0.1 to 1.0	wt%	ASTM D6047
Ash Content	< 0.10	wt%	ASTM D5667
Molecular Weight Distribution	Narrow		Internal Method
Propylene Content	30	wt%	ASTM D3900
Residual Transition Metal	< 10	ppm	Internal Method
Volatile Matter	< 0.40	wt%	Internal Method

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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

¹ Typical properties: these are not to be construed as specifications.