



EPDM 745P

Hydrocarbon Rubber

Overview

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.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.880 g/cm ³	0.880 g/cm ³	ASTM D297
Ethylene Content	68.0 to 72.0 wt%	68.0 to 72.0 wt%	ASTM D3900
Ethylidene Norbornene (ENB) Content	0.1 to 1.0 wt%	0.1 to 1.0 wt%	ASTM D6047
Mooney Viscosity (ML 1+4, 257°F (125°C))	41 to 49 MU	41 to 49 MU	ASTM D1646
Ash Content	< 0.1 wt%	< 0.1 wt%	ASTM D5667
Molecular Weight Distribution	Narrow	Narrow	Dow Method
Propylene Content	29.5 wt%	29.5 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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