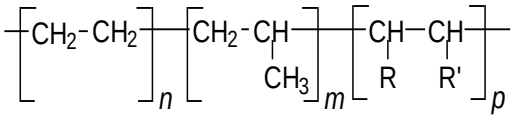
systemseals

MATERIAL SPECIFICATION SHEET

ME07



Ethylene Propylene Diene Monomer Elastomer (EPDM-KTW/FDA)

SPECIFICATIONS

Property	Spec	Value
Hardness (Shore A)	ASTM D2240	81 ± 5
Modulus 100%	DIN 53 504	≥5
Tensile Strength (MPa)	DIN 53 504	≥12
Elongation at Break	DIN 53 504	150%
Tear Strength (kN/m)	DIN ISO 34-1	≥8
Specific Gravity (kg/m^3)	ISO 1183	1170
Rebound Elasticity	DIN 53 512	41%
Abrasion (mm^3)	DIN 53 516	0
Compression Set: 24h, 70C @25% def	ISO 815	≥15
Compression Set: 24h, 100C @25% def	ISO 815	-
Compression Set: 24h, 150C @ 25% def	ISO 815	-
Min Service Temperature		-40C -40F
Max Service Temperature		130C 266F
Max Temperature Water/Steam		130C 266F
Max Temperature Hot air/Short		150C 302F
Color		Black

DESCRIPTION

ME07 is an EPDM material with hardness 81A, specially compounded for food use applications. As a seal material, EPDM is very useful elastomer because of its wide application temperature range and unique fluid resistance that most other elastomers cannot match. EPDM provides the best resistance to hot water, steam and phosphate ester hydraulic fluids such as HFD-R and Skydrol. EPDM can be used in brake systems that use glycol-based fluid or synthetic ester lubricants that are used for low temperature applications. EPDM has resistance to some polar solvents such as ketones, esters or alcohols, some acids and alkalis. However EPDM is not suitable for mineral hydrocarbon oils, greases and fuels.