

Ethylene Propylene Rubber (EPM, EPDM)

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Satisfactory compatibility with fireproof hydraulic fluids, ketones, hot and cold water, alkalis, and ozone/strong oxidizing chemicals.

Unsatisfactory compatibility with most oils, gasoline, kerosene, aromatic and aliphatic hydrocarbons, halogenated solvents, and concentrated acids. Information provided by DuPont Dow Elastomers and TSE Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ethylene-Propylene-Rubber-EPM-EPDM.php

Physical Properties	Metric	English	Comments
Density	0.860 g/cc	0.0311 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40 - 90	40 - 90	Depends on compounding
Tensile Strength, Ultimate	17.0 MPa	2470 psi	
Elongation at Break	600 %	600 %	Reinforced

Thermal Properties	Metric	English	Comments
CTE, linear	576 $\mu\text{m/m-}^{\circ}\text{C}$	320 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	150 $^{\circ}\text{C}$	302 $^{\circ}\text{F}$	
	177 $^{\circ}\text{C}$	350 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-54.0 $^{\circ}\text{C}$	-65.2 $^{\circ}\text{F}$	t_g
Brittleness Temperature	-67.8 $^{\circ}\text{C}$	-90.0 $^{\circ}\text{F}$	
Glass Transition Temp, Tg	-54.0 $^{\circ}\text{C}$	-65.2 $^{\circ}\text{F}$	

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