

EPDM 85 Shore A FDA black

Copolymer based on ethylene, propylene and diene

EPDM is known for its low tool abrasion and low temperature properties. Very good resistance to weathering, aging and ozone. This EPDM is FDA approved and for this application we recommend a max. service temperature of 90°C.

Mechanical, physical and thermal properties

Material code: 0405H

Properties	Condition	Standard	Unit	Unit		
Color				black		
Hardness	23°C/3sec. 23°C/15sec.	ISO 868	Shore A	85 ± 5 84 ± 5		
Modulus 100%	23°C	DIN 53 504	MPa		psi	
Tensile strength	23°C	DIN 53 504	MPa	≥10	psi	≥1450
Elongation at break	23°C	DIN 53 504	%	≥85		
Tear strength	23°C	DIN ISO 34-1	kN/m	≥4	lbf/inch	≥23
Specific gravity	23°C	ISO 1183	kg/m ³	1180	g/cm ³	1,18
Rebound Elasticity		DIN53 512	%	40		
Abrasion	23°C	DIN 53 516	mm ³	160		
Compression set	*	ISO 815	%	≤10		
Compression set	**	ISO 815	%	≤10		
Compression set	***	ISO 815	%			
Minimum service temperature			°C	-45	°F	-49
Maximum service temperature			°C	130	°F	266
Maximum temp. water/steam			°C	130	°F	266
Maximum temp. hot air/short			°C	150	°F	302
*24h 70°C 25% deflection		** 24h 100°C 25% deflection				

Resistant to: ozone, aging, hot water and steam, polar solvents, polyglycol based brake fluids

Not resistant to: aliphatic, aromatic and chlorinated hydrocarbons, greases and fuels

FDA approved