

E05 - EPDM FDA blue

Ethylene propylene diene rubber

Mechanical, Physical and Thermal Properties

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				blue		blue
hardness	23°C/3 sek.	ISO 868	Shore A	81 ± 5	Shore A	81 ± 5
hardness	23°C/15 sek	ISO 868	Shore A	81 ± 5	Shore A	81 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 5	psi	≥ 725
tensile strength	23°C	DIN 53 504	MPa	≥ 9	psi	≥ 1305
elongation at break		DIN 53 504	%	≥ 130	%	≥ 130
tear strength		DIN ISO 34-1	kN/m		lbf/inch	
spec. gravity	23°C	ISO 1183	kg/m ³	1120	g/cm ³	1,12
rebound elasticity	23°C	DIN 53 512	%	46	%	46
abrasion	23°C	DIN 53 516	mm ³	177	mm ³	177
compression set	*	ISO 815	%	≤ 14	%	≤ 14
compression set	**	ISO 815	%	≤ 15	%	≤ 15
compression set		ISO 815	%		%	
minimum service temperature			°C	-30	°F	-22
maximum service temperature			°C	130	°F	266
temp. max water/steam			°C	130	°F	266
temp. max hot air, short			°C		°F	

* 24h 70°C 25% def. ** 24h 100°C 25% def. *** 24h 150°C 25% def.

Chemical Properties

Copolymer, based on ethylene, propylene and diene

Resistant to: (hot) water, acids, bases, ketones, HFC- and HFD-fluids, lyes

Not resistant to: aliphatic, aromatic and chlorinated hydrocarbons, greases, fuels, brake fluids based on polyglycols

Foodstuff approval

FDA compliant, 1935/2004