

FPM 82 Shore A brown

Copolymer, based on fluoro

FPM brown is resistant to hot air up to 300 °C in short periods, and has a high chemical resistance, suitable at high temperature. Note that FPM brown loses its elasticity at moderate low temperatures.

Mechanical, physical and thermal properties

Material code: 0600H

Properties	Condition	Standard	Unit	Unit		
Color				brown		
Hardness	23°C/3sec. 23°C/15sec.	ISO 868	Shore A	82 ± 5 78 ± 5		
Modulus 100%	23°C	DIN 53 504	MPa	≥6	psi	≥870
Tensile strength	23°C	DIN 53 504	MPa	≥9	psi	≥1305
Elongation at break	23°C	DIN 53 504	%	≥200		
Tear strength	23°C	DIN ISO 34-1	kN/m	≥20	lbf/inch	≥114
Specific gravity	23°C	ISO 1183	kg/m ³	2530	g/cm ³	2,53
Rebound Elasticity		DIN53 512	%	7		
Abrasion	23°C	DIN 53 516	mm ³	175		
Compression set	*	ISO 815	%	≤17		
Compression set	**	ISO 815	%	≤20		
Compression set	***	ISO 815	%	≤26		
Minimum service temperature			°C	-20	°F	-4
Maximum service temperature			°C	220	°F	428
Maximum temp. water/steam			°C		°F	
Maximum temp. hot air/short			°C	300	°F	572
*24h 70°C 25% deflection		** 24h 100°C 25% deflection				

Resistant to: fuel, mineral oil, fats and crude oil, aliphatic and aromatic hydrocarbons **Not resistant to:** glycols, ketones, water and steam, fluids containing amines