

FPM 85 Shore A black

Copolymer, based on fluoro

FPM black is resistant in hot air and many chemicals up to 280°C for a short period and it is slightly harder than FPM brown.

Mechanical, physical and thermal properties

Material code: 0602H

Properties	Condition	Standard	Unit	Unit		
Color				black		
Hardness	23°C/3sec. 23°C/15sec.	ISO 868	Shore A	85 ± 5 83 ± 5		
Modulus 100%	23°C	DIN 53 504	MPa	≥7	psi	≥1015
Tensile strength	23°C	DIN 53 504	MPa	≥9	psi	≥1305
Elongation at break	23°C	DIN 53 504	%	≥140		
Tear strength	23°C	DIN ISO 34-1	kN/m	≥7	lbf/inch	≥39
Specific gravity	23°C	ISO 1183	kg/m ³	1870	g/cm ³	1,87
Rebound Elasticity		DIN53 512	%	9		
Abrasion	23°C	DIN 53 516	mm ³			
Compression set	*	ISO 815	%	≤13		
Compression set	**	ISO 815	%	≤15		
Compression set	***	ISO 815	%			
Minimum service temperature			°C	-20	°F	-4
Maximum service temperature			°C	210	°F	410
Maximum temp. water/steam			°C		°F	
Maximum temp. hot air/short			°C	280	°F	536
*24h 70°C 25% deflection		** 24h 100°C 25% deflection				

Resistant to: gasoline, mineral oil, fats and crude oil, aliphatic and aromatic hydrocarbons

Not resistant to: glycols, ketones, water and steam, fluids containing amines