



NATIONWIDE PLASTICS, INC.

The Authority on Plastics Manufacturing and Distribution

Fluoro-Mar Properties & Typical PTFE & Teflon® Properties

FLUORO-MAR PROPERTIES			
PRODUCT DESIGNATION	MR 91	MR 93	MR 94
COMPOSITION	Chemically Modified PTFE	Chemically Modified PTFE with Glass Fiber Filler	Chemically Modified PTFE with Carbon Filler
COLOR	White	Green	Black
ASTM F-36 COMPRESSIBILITY(%)	7	10	7
ASTM F-36 RECOVERY(%)	50	33	33
ASTM F-37 (B) SEALABILITY (ML/MN)(%)	0.002	0.02	0.07
ASTM F-38 (B) CREEP RELAXATION	42	15	17
ASTM F-152 TENSILE STRENGTH (PSI)	4575	2140	2405
ASTM D-792 (B) SPECIFIC GRAVITY	2.18	2.24	2.11

* Testing performed by independent test laboratory.

** Color will vary depending on wall thickness.

TYPICAL PROPERTIES OF PTFE		
PROPERTY	ASTM Method	
Tensile Strength, 73 degrees	D638-52T	1,500 - 3,000 lb./sq.in
Elongation 73 degrees Fahrenheit	D638-52T	100-200%
Hardness, Durometer	D676-49T	D50-D60
Coefficient of linear thermal expansion per 73 - 100 degrees Fahrenheit	D696-44	5.5 X 10 to the -5 power
Thermal conductivity, 0.18 in	Cenco-Fitch	1.7 B.T.U./hr./sq. ft./ degrees Fahrenheit /in.
Heat-distortion temperature 66 lb./sq.in.	D6488-45T	250 degrees Fahrenheit
Dielectric strength, short time, 0.080 in.	D149-44	400-500 v/mil
Dielectric constant, 60 cycles - greater than 3,000 megacycles	D150-54T	2.1
Dissipation factor, 60 cycles - greater than 3,000	D150-54T	less than 0.0003
Water-absorption	D570-42	less than 0.01%
Flamability	D635-44	non-flamable
Specific Gravity	D792-50	2.1 - 2.2
Resistance to weathering	-	Unaffected by 25 yrs. exposure in Florida
Static or kinetic coefficient	-	0.04

Teflon® is a registered trademark of E.I. Du Pont De Nemours and Company used under License by Fluoro-Plastics, Inc. Only Dupont makes TEFLON®.

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January 1, 2007 - Version 3.0