

TYPICAL PROPERTIES OF POLYTETRAFLUOROETHYLENE-PERFLUOROMETHYLVINYLETHER (MFA)		
ASTM	Property	MFA
MECHANICAL		
D792	Specific gravity	2.12~2.17
D638	Elongation (%)	300~600
D638	Tensile strength (psi)	3400-4500
D638	Hardness durometer (Shore D)	59
D1894	Coefficient of friction (Static)	0.2
D256	Impact strength (Notched ft/lbs/in) Izod 73°F/23°C	No break
THERMAL		
	Melting point (°C/°F)	285°/545°
	Upper service temperature, 20,000 h (°C/°F)	260°/500°
	Flame rating (UL 94)	VO
	Low temperature embrittlement (°C/°F)	-232°/-450°
ELECTRICAL		
	Dielectric constant	
	D150/103 Hz	2
	D150/106 Hz	2
GENERAL		
	Chemical/solvent resistance	Excellent
	Water absorption, 24 h (%)	<0.03
D495	Arc resistivity (%)	NA
	(s)	240

PHYSICAL PROPERTIES OF POLYURETHANE (PU)			
ASTM Test	Property		
D676	Nominal Hardness	Shore A	20-95
		Shore D	50-80
D412	Tensile strength (psi)		2,000-12,000
D624	Tear strength die C		100-1,200
D395B	Compression set		15-45
D2632	Bashore rebound (%)		25-60
D1630	NBS abrasion index		100-500

PHYSICAL PROPERTIES OF POLYURETHANE (PU)			
ISO Test	Property		
ISO868	Nominal Hardness	Shore A	20-95
		Shore D	50-80
ISO527	Tensile strength (MPa)		13.79-82.74
ISO34	Tear strength die C		100-1,200
ISO37	Compression set		15-45
ISO4662	Bashore rebound (%)		25-60
ASTM	NBS abrasion index		100-500
D1630			

TYPICAL PROPERTIES OF POLYTETRAFLUOROETHYLENE-PERFLUOROMETHYLVINYLETHER (MFA)		
ISO	Property	MFA
MECHANICAL		
ISO1183	Specific gravity	2.12~2.17
ISO527	Elongation (%)	300~600
ISO527	Tensile strength (MPa)	23.44-31.03
ISO868	Hardness durometer (Shore D)	59
ASTM D1894	Coefficient of friction (Static)	0.2
ISO180	Notched izod impact strength (J/m) Izod 73°F/23°C	No break
THERMAL		
	Melting point (°C/°F)	285°/545°
	Upper service temperature, 20,000 h (°C/°F)	260°/500°
	Flame rating (UL 94)	VO
	Low temperature embrittlement (°C/°F)	-232°/-450°
ELECTRICAL		
	Dielectric constant	
	IEC250/103 Hz	2
	IEC250/106 Hz	2
GENERAL		
	Chemical/solvent resistance	Excellent
	Water absorption, 24 h (%)	<0.03
ASTM	Arc resistivity (%)	NA
D495	(s)	240



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