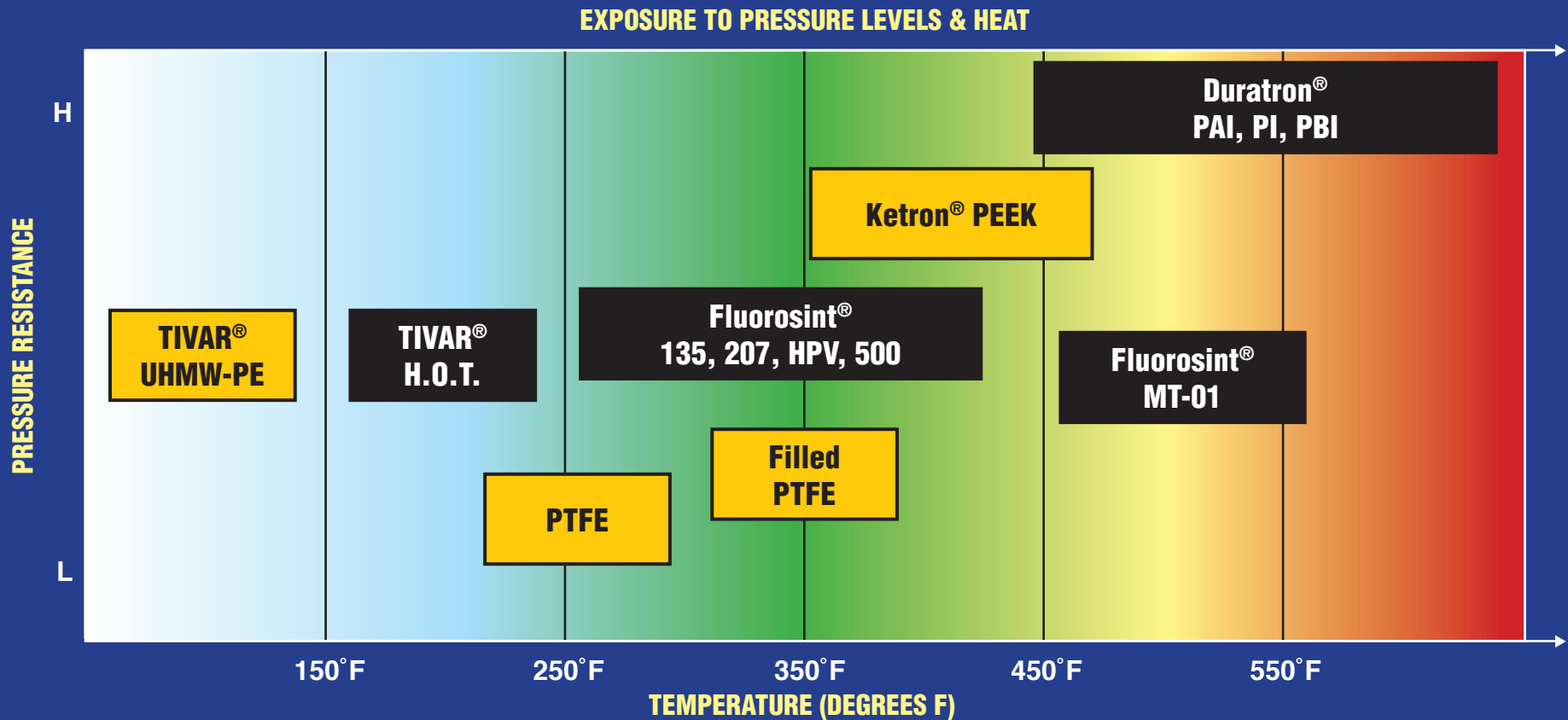


Material Selection - Seals Are You Considering All Options?

SIMPLY NO SUBSTITUTE

QUALITY | INNOVATION | DISTINCTION



TIVAR® H.O.T. — High Operating Temperature UHMW-PE that offers performance to 275°F.

Fluorosint® 135, 207, HPV, 500 — Mica-filled PTFE that offers drastic load resistance and lower CLTE than all other filled PTFEs.

Fluorosint® MT-01 — Exotic Fillers offer this PTFE based material sealing capability to 675°F.

Duratron® Family of materials offer extreme performance at temperatures from 400° to 800°F.



QUADRANT

quadrantplastics.com

Competitive Material Comparison versus other filled PTFE Materials

SIMPLY NO SUBSTITUTE

QUALITY | INNOVATION | DISTINCTION

Fluorosint® vs. Traditional Filled PTFE Materials

Properties (Inches)/ °F)	Fluorosint® - Enhanced PTFE					Traditional Filled PTFE Materials		
	135	207	500	HPV	MT-01	Gold Colored PTFE for Soft Surfaces	Maroon Colored PTFE for Hard Surfaces	Unfilled FDA Grade
Specific Gravity	1.91	2.3	2.32	2.06	2.27	1.95	2.25	2.25
Tensile Strength (psi)	1,320	1,500	1,100	1,450	2,100	2,000	2,000	2,000
Tensile Elongation (psi)	3	50	30	90	40	180	135	175
Hardness	R80/D74	R50/D65	R55/D70	R44/D64	R74/D75	D60	D60	D60
CLTE (in/in/°F)	2.57x10 ⁻⁵	5.7X10 ⁻⁵	2.5X10 ⁻⁵	4.9X10 ⁻⁵	3.0X10 ⁻⁵	6.8X10 ⁻⁵	6.2X10 ⁻⁵	5.7X10 ⁻⁵
COF	0.12	0.17	0.19	0.18	0.18	0.20	0.25	0.30
Limiting PV (ft-lbs.in ² -min)	14,300	8,000	8,000	20,000	4,500	7,500	10,000	10,000
K-Factor	32	85	600	38	200	47		45
Deformation under load	1.98%	5.00%	1.20%	3.20%	0.20%	3.00%	3.00%	4.00%
FDA Compliant	NO	YES	NO	YES	NO	NO	NO	YES

Advantage

Strong Advantage

