

T-LON Material Specification Tables



Properties Material	Color	Tensile Strength PSI <small>ASTM D4894/D4745</small>	Elongation % <small>ASTM D4894/D4745</small>	Specific Gravity <small>ASTM D4894/D4745</small>	Hardness Shore D <small>ASTM D2240</small>	Wear Resistance	Extrusion Resistance	NSF/FDA Acceptance	Dynamic Surface Abrasion (Relative)	Maximum Typical Use Temperature (F)	Typical Applications
T-Lon-22 60% Bronze Filled PTFE	Bronze	2800	175	3.85	62	++++	++++	No	Low	550	Elevated Temp Reciprocating Seal Rotary Seal
T-Lon 24 55% Bronze 5% Moly Filled PTFE	Dark Bronze	2900	175	3.60	62	++++	+++	No	Low	550	Elevated Temp Reciprocating Seal Rotary Seal
T-Lon 28 5% Graphite Filled PTFE	Grey	3800	300	2.14	56	+++	++	No	Very Low	550	High Temp Low Hardness Mating Surface Applications
T-Lon 30 Polymer/Carbon Filled PTFE	Black	2000	185	1.97	57	+++	++	No	Very Low	450	Low Hardness Mating Surface Applications
T-Lon-31 15% Glass 5% Moly Filled PTFE	Dark Grey	3100	225	2.25	58	+++	+++	No	Moderate	550	Moderate Temp High Wear Reciprocating Seal
T-Lon-34 Aromatic Polyester Filled PTFE	Tan	3600	325	2.05	58	++++	+++	No	Low	550	Low Hardness Mating Surface Applications
T-Lon-36 15% Carbon Graphite Filled PTFE	Black	3000	200	2.11	62	++++	+++	No	Low	550	Elevated Temp High Wear Reciprocating Seal Rotary Seal
T-Lon-37 Polymide Filled PTFE	Tan	3000	225	1.99	57	++++	+++	Yes	Very Low	500	Low Hardness Mating Surface Applications
T-Lon-38 Modified Filled PTFE	Translucent White	5000	575	2.16	54	+++	+++	Yes	Very Low	550	Food Processing FDA/NSF Very High Chemical Resistance Harsh Environment
T-Lon-39 PPS Filled PTFE	Black	3900	310	2.03	57	++++	+++	No	Very Low	450	Low Hardness Mating Surface Applications
T-Lon-45 Glass / Carbon Filled PTFE	Black	2400	40	2.12	60	+++++	+++++	No	Moderate	550	Steam Application High Temperature High Wear

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T-Lon-56 40% Bronze 5% Moly Filled PTFE	Dark Bronze	2600	185	3.09	60	++++	++++	No	Low	550	Elevated Temp Reciprocating Seal Rotary Seal
T-Lon-66 50% Stainless Steel Filled PTFE	Grey	2600	185	3.31	62	++++	++++	Yes	Moderate	550	Elevated Temp Sanitary Gasket Static Seal
T-Lon-68 Carbon Fiber Filled PTFE	Black	3200	350	2.07	61	+++++	+++++	No	Moderate	550	Severe Service Conditions
T-Lon-75 Carbon Fiber Filled PTFE	Brown	3000	200	2.10	61	++++	++++	No	Low	550	Elevated Temp High Wear Rotary Seal Piston Seal
T-Lon-77 PPS / Carbon Filled PTFE	Black	3100	235	1.93	57	++++	++++	No	Low	550	Elevated Temp High Wear Rotary Seal Piston Seal
T-Lon-92 PTFE/Carbon/ Carbon Fiber Filled PEEK	Black	15,000	3	1.44	86	+++++	+++++	No	Moderate	550	High Temp High Wear High Load
T-Lon-99 Virgin PEEK	Dark Tan	14,500	50	1.30	86	+++++	+++++	Yes	Moderate	500	High Temp FDA
T-Lon-UH Virgin UHMW	White	5000	275	0.93	64	++++	+++	Yes	Low	180	Medical Food Processing Low Temp High Wear
T-Lon-UG Pigmented UHMW	Gold	5000	275	0.93	64	++++	+++	Yes	Low	180	Medical Food Processing Low Temp High Wear
T-Lon-6N Moly Filled Nylon	Black	12,500	25	1.16	72	+++++	+++++	No	Moderate	210	Anti Extrusion Back-up
T-Lon 1D Acetal	White	9500	40	1.50	72	+++++	+++++	Yes	Low	180	Wear Bearing Low Temp FDA / NSF

Note: These data are shown for information and comparison, and should not be used for design purposes. Materials found in this section describe properties of the most frequently used T-LON compounds. Information concerning other PTFE blends of material is available upon request.