

THERMOPLASTIC INFORMATION

Material Name	Material Description	Shore D Hardness	Temp F (Temp C)*	Pressure Rating (psi)*	Tensile Strength D1457 (psi)	Elongation D1457 (%)	Deformation Under 2000 psi (%)	Wear Factor, cubic inch-min./lb.-ft.-hr.	Recommended Usage
Avalon 01	Virgin PTFE	60	-430 to 350 (-257 to 177)	3,000	5,000	350	7	2500 x10E-10	Static, Low Duty Cycles
Avalon 07	Pigmented & MoS2 Filled PTFE	60	-350 to 350 (-212 to 177)	3,000	4,000	320	15	150 x10E-10	Dynamic, Medium Duty Cycles
Avalon 09	Graphite Filled PTFE	55	-350 to 350 (-212 to 177)	3,000	2,600	225	8	30 x10E-10	Dynamic, Medium Duty Cycles, Soft Metals
Avalon 44	Mineral & MoS2 Filled PTFE	62	-430 to 500 (-257 to 260)	4,000	4,000	300	4	2 x10E-10	Dynamic/Static, High Duty Cycles
Avalon 57	Polyimide Filled PTFE	60	-430 to 500 (-257 to 260)	4,000	2,600	300	2.3	2.2 x10E-10	Dynamic, High Duty Cycles, Soft Metals
Avalon 69	Thermoplastic & Carbon Filled PTFE	63	-350 to 550 (-212 to 288)	5,000	2,000	300	1.2	1 x10E-10	Dynamic/Static, High Duty Cycles, Hardened Metals
Avalon 89	Thermoplastic & Carbon Filled Lubricated PTFE	65	-430 to 550 (-257 to 288)	5,000	2,000	200	2.5	1 x10E-10	Dynamic, High Duty Cycles, Soft Metals
NWR	Wear Resistant Nylon	85	-65 to 300 (-54 to 149)	8,000	12,000**	10**	2.5	1** x10E-10	Static, High Pressure
Arlon 1000	Virgin PEEK	88	-100 to 500 (-73 to 278)		13,500**	40	0.08†	50 x10E-10	Static, High Pressure, High Temperature
Arlon 1163	Glass Fiber Filled PEEK	90	-100 to 500 (-73 to 278)		26,400**	2.3**	0.18†	170 x10E-10	Static, High Pressure High Temp, Hardened Metals
Arlon 1263	Carbon Filled PEEK	90	-100 to 500 (-73 to 278)		35,000**	1.7	0.06†	230 x10E-10	Dynamic, High Pressure, High Temperature, Hardened Metals
Arlon 1330	Lubricated PEEK	86	-100 to 500 (-73 to 278)		11,800**	21	0.14†	20 x10E-10	
Arlon 1555	Carbon, Graphite & PTFE Filled PEEK	86	-100 to 500 (-73 to 278)		20,500**	2**	0.10†	65 x10E-10	

* Application Specific ** ASTM D638
 † Deformation @ 8,000 psi

Wear Factor @ PV=12,500 psi.fpm

Statements and recommendations in this publication are based on our experience and knowledge of typical applications for this product and shall not constitute a guarantee or warranty of performance nor a modification or alteration of our standard product warranty which shall be applicable to such products.

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