



埃宸特氟龙涂层性能说明书
ASEN Teflon Coatings Data Sheet

涂层性能 Coating Performance Standard	ASTM标准 ASTM Standard	单位 Unit	特氟龙 PTFE	特氟龙 PFA
比重 Specific Gravity			2.15	2.15
拉伸强度 Tensile Strength	D1457	兆帕 MPa	21-35	25
	D1708,D638	磅/平方英寸 PSI	3000-5000	3600
伸长率 Elongation	D1457	%	300-500	300
	D1708,D638	%	13.7	< 1
弯曲模量 Flexural Modulus	D790	兆帕 MPa	500	500
		磅/平方英寸 PSI	72000	72000
耐折度 Folding Strength	D2176	J/M	189	无断裂 No Breakage
		ft.lb/in	3.5	
硬度 Hardness	D2240	邵氏硬度计 Shore Durometer	50-65	60
耐磨性 (贝尔磨) Wear Resistance (BLM polish)		g/um	85	80
耐刮擦 Scratch-resistant				
初始 Initial		Kg	5.7-7.0	7.6-8.4
完成 Finish		Kg	7.3-10.7	8.7-11.2
摩擦系数 Friction Coefficient	D1849			
		静态 Static State	0.12-0.15	0.2-0.27
		动态 Dynamic State	0.05-0.10	0.15-0.22
接触角 (水) Contact Angle (Water)		°度 (° Degree)	104°-111°	104°-111°

说明

Explanation

- ◆ 工件在烘箱内固化时会遇到高温。较薄或者较软的工件可能会发生轻微形变例如铝。
- ◆ Parts will be subjected to high temperatures during the oven curing process. Slight distortion may occur on thin flat work parts or parts made of softer metal such as aluminum.
- ◆ 碳纤维复合材料将会选用常温固化工艺。
- ◆ CFRP will choose air cured process.
- ◆ 贝尔耐磨试验机：克磨料/微米
- ◆ BLM abrasion testing machine: g-grinding material/um
- ◆ 初始：基材上发现首条划痕
- ◆ Initial: First scratch found on substrate
- ◆ 完成：涂层完全去除
- ◆ Finished: Coating is completely removed