



技术数据表

Technical Data Sheet

牌号/Grade: Copolyester SWK1984-LD

性能 Properties	测试方法 Test Method	典型值 Typical Value	单位 Unit
基础性能 General properties			
密度 Specific Gravity	ASTM D792	1.28	g/cm ³
洛氏硬度 Rockwell Hardness	ASTM D785	118	R-scale
吸水率 Moisture Absorption 24 immersion	ASTM D570	0.14	%
机械性能 Mechanical Properties			
屈服拉伸强度 Tensile Strength @Yield 50mm/min(2 inch/min)	ASTM D638	52.9	MPa
断裂拉伸强度 Tensile Strength @Break 50mm/min(2 inch/min)	ASTM D638	24.8	MPa
屈服伸长率 Elongation@Yield 50mm/min(2 inch/min)	ASTM D638	9.9	%
断裂伸长率 Elongation@Break 50mm/min(2 inch/min)	ASTM D638	53	%
弯曲强度 FlexuralStrength 1.27mm/min(2 inch/min)	ASTM D790	68.7	MPa
弯曲模量 FlexuralModulus 1.27mm/min(3 inch/min)	ASTM D790	2210	MPa
冲击强度 Izod Impact Strength,Notched@23°C (73°F)	ASTM D256	49.8	J/m
热性能 Thermal Properties			
热变形温度 Heat Distortion Temperature@0.45MPa(66psi)	ASTM D648	73.7	°C
热变形温度 Heat Distortion Temperature@1.82MPa(264 psi)	ASTM D648	62.8	°C
维卡软化温度 Vicat Softening Temperature@1kg load	ASTM D1525	77.1	°C



电性能 Electrical Properties

表面电阻率 Surface Resistivity	ASTM D257	8.32E+15	Ω
介电强度 Dielectric Strength (short time, 2000V/sec)	ASTM D257	1.01E+15	Ω·cm
介电常数 Dielectric Constant 1 kHz			
介电常数 Dielectric Constant 1 MHz	ASTM D149	16.38	kV/mm
耗散因数 Dissipation Factor 1 kHz	ASTM D150	2.81	-
耗散因数 Dissipation Factor 1 MHz	ASTM D150	2.11	-
	ASTM D150	0.0059	-
	ASTM D150	0.0285	-

燃烧性能 Flammability Properites

UL 阻燃等级 UL Flammability Classification 1.50mm	UL 94	HB	-
UL 阻燃等级 UL Flammability Classification 3.20mm	UL 94	V-2	-

光学性能 Optical Properties

雾度/Haze	ASTM D1003	0.43	%
透光率/Transmittance	ASTM D1003	91.9	%