



技术数据表

Technical Data Sheet

牌号/Grade: Copolyester SWK1984-HD

性能 Properties	测试方法 Test Method	典型值 Typical Value	单位 Unit
基础性能 <i>General properties</i>			
密度 Specific Gravity	ASTM D792	1.29	g/cm3
洛氏硬度 Rockwell Hardness	ASTM D785	119	R-scale
吸水率 Moisture Absorption 24 immersion	ASTM D570	0.14	%
机械性能 <i>Mechanical Properties</i>			
屈服拉伸强度 Tensile Strength @Yield 50mm/min(2 inch/min)	ASTM D638	50.9	MPa
断裂拉伸强度 Tensile Strength @Break 50mm/min(2 inch/min)	ASTM D638	27.2	MPa
屈服伸长率 Elongation@Yield 50mm/min(2 inch/min)	ASTM D638	4.8	%
断裂伸长率 Elongation@Break 50mm/min(2 inch/min)	ASTM D638	97	%
弯曲强度 Flexural Strength 1.27mm/min(2 inch/min)	ASTM D790	71	MPa
弯曲模量 Flexural Modulus 1.27mm/min(3 inch/min)	ASTM D790	2090	MPa
冲击强度 Izod Impact Strength, Notched@23 °C(73°F)	ASTM D256	56.2	J/m
热性能 <i>Thermal Properties</i>			
热变形温度 Heat Distortion Temperature@0.45MPa(66psi)	ASTM D648	76.3	°C
热变形温度 Heat Distortion Temperature@1.82MPa(264 psi)	ASTM D648	66.1	°C
维卡软化温度 Vicat Softening Temperature@1kg load	ASTM D1525	79.4	°C



电性能 <i>Electrical Properties</i>				
表面电阻率 Surface Resistivity		ASTM D257	9.11E+15	Ω
体积电阻率 Volume Resistivity		ASTM D257	1.49E+15	Ω·cm
介电强度 Dielectric Strength (short time, 2000V/sec)		ASTM D149	16.98	kV/mm
介电常数Dielectric Constant 1 kHz		ASTM D150	2.44	-
介电常数Dielectric Constant 1 MHz		ASTM D150	2.31	-
耗散因数Dissipation Factor 1 kHz		ASTM D150	0.007	-
耗散因数Dissipation Factor 1 MHz		ASTM D150	0.0249	-
燃烧性能 <i>Flammability Properites</i>				
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 <i>Optical Properties</i>				
雾度/Haze		ASTM D1003	0.68	%
透光率/Transmittance		ASTM D1003	91.3	%