

KYNAR FLEX®

2850-00

Kynar Flex®树脂 是氟化热塑性塑料共聚物。

出色的特性：耐化学腐蚀性、耐紫外线性、高阻隔特性、高纯度、良好的机械特性和热力学特性。

Kynar Flex® 2850-00 树脂 是一种标准的粒状颗粒产品，其柔韧性低于Kynar Flex® 2800-00 树脂，但是熔点更高。在挤出应用中，适用于要求UL电线等级达到150°C的电线和电缆结构。也适用于要求UL RTI温度额定值为140°C的应用。其粉末供应形态的产品为Kynar Flex® 2851-0树脂。

[UL 黄卡](<http://iq.ul.com/ul/cert.aspx?ULID=244852>)

性能	价值	单位	测试标准
流变性能			
熔体体积流动速度	1.1	cm ³ /10min	ISO 1133
温度	230	°C	-
	446	°F	-
载荷	5	kg	-
	11	lb	-
熔融指数	3 - 8	g/10min	ASTM D1238
温度	230	°C	-
负载	12.5	kg	-
熔体粘度, 230°C, 100 s ⁻¹	23 - 27	kPoise	ASTM D3835
机械性能			
拉伸模量	1300	MPa	ISO 527-1/-2
	189000	psi	
拉伸模量, 73 °F	1030 - 1520	MPa	ASTM D638
	150000 - 220000	psi	
屈服应力	40	MPa	ISO 527-1/-2
	5800	psi	
屈服应力, 73 °F	31 - 41.4	MPa	ASTM D638
	4500 - 6000	psi	
屈服伸长率	11	%	ISO 527-1/-2
屈服伸长率, 73 °F	5 - 15	%	ASTM D638
名义断裂伸长率	>50	%	ISO 527-1/-2
断裂拉伸强度, 73 °F	27.6 - 48.3	MPa	ASTM D638
	4000 - 7000	psi	
断裂伸长率, 73 °F	30 - 200	%	ASTM D638
TABER耐磨耗性, CS 17 1000g:pad	6 - 9	mg/1000 cycles	ASTM-G195-13A

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肖氏硬度, D, 73 °F	70 - 75	-	ASTM D2240
弯曲模量, 73 °F	1030 - 1240	MPa	ASTM D790
	150000 - 180000	psi	
5%伸长率时弯曲强度, 73 °F	20.7 - 34.5	MPa	ASTM D790
	3000 - 5000	psi	
压缩强度, 73 °F	41.4 - 58.6	MPa	ASTM D695
	6000 - 8500	psi	
拉伸蠕变模量, 1h	508	MPa	ISO 899-1
	73700	psi	
拉伸蠕变模量, 1000h	210	MPa	ISO 899-1
	30500	psi	
简支梁缺口冲击强度, +23°C	无断裂	kJ/m²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	5	kJ/m²	ISO 179/1eA
	2.38	ftlb/in²	
冲击强度, 73 °F	无断裂	kJ/m	ASTM D256
梁缺口冲击强度, 73 °F	≥ 0.214	kJ/m	ASTM D256
	≥ 4	ftlb/in	
摩擦系数, 静态vs.钢, 73°F	0.26	-	ASTM D1894
摩擦系数, 动态vs.钢, 73°F	0.19	-	ASTM D1894
热性能			
熔融温度, 10°C/min	158	°C	ISO 11357-1/-3
熔点	155 - 160	°C	ASTM D3418
玻璃化转变温度, 10°C/min	-43	°C	ISO 11357-1/-2
	-45.4	°F	
玻璃化转变温度 (Tg)	-40.6 - -38.3	°C	ASTM D7028
	-41 - -37	°F	
温度额定值为	140	°C	UL RTI
	284	°F	
热变形温度, 1.80 MPa	46	°C	ISO 75-1/-2
	115	°F	
热变形温度, 264 Psi, 248 °F/hr	37.8 - 55	°C	ASTM D648
	100 - 131	°F	
热变形温度, 0.45 MPa	114	°C	ISO 75-1/-2
	237	°F	
热变形温度, 66 Psi, 248 °F/hr	60 - 75	°C	ASTM D648
	140 - 167	°F	

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维卡软化温度, 50°C/h 50N	107	°C	ISO 306
	225	°F	
线性热膨胀系数, 平行	160	E-6/K	ISO 11359-1/-2
热释放速率, 73 °F	12.6 - 18.5	10E-5/	ASTM D696
	7 - 10.3	°C 10E-5/	
阻燃等级, 1.5mm厚	V-0	°F class	IEC 60695-11-10
测试用试样的厚度	1.5	mm	-
	0.0591	in	
Yellow Card 现存	是的	-	-
阻燃等级, 厚度h	V-0	class	IEC 60695-11-10
测试用试样的厚度	0.8	mm	-
	0.0315	in	
氧指数	43	%	ISO 4589-1/-2
氧指数	43	%	ASTM D2863
在空气中热分解	375	°C	1% wt. loss
	707	°F	
在氮气中热分解	410	°C	1% wt. loss
	770	°F	
相对热指数, 机械的	140	°C	UL 746B
	284	°F	
相对热指数, 电气	140	°C	UL 746B
	284	°F	
电性能			
相对介电常数, 100Hz	10.5	-	IEC 60250
相对介电常数, 1MHz	6.5	-	IEC 60250
电介质常数, 1 kHz	3.5 - 10.2	-	ASTM D150
介质损耗因子, 100Hz	380	E-4	IEC 60250
介质损耗因子, 1MHz	2340	E-4	IEC 60250
耗散因素, 100 kHz	0.01 - 0.22	-	ASTM D150
体积电阻率	2E12	Ohm* m	IEC 62631-3-1
体积电阻率, DC 68 °F, 65% R.H.	2.9E14 - 3.2E14	Ohm* cm	ASTM D257
表面电阻率	1E13	Ohm	IEC 62631-3-2
介电强度	21	kV/m	IEC 60243-1
	533	kV/in	

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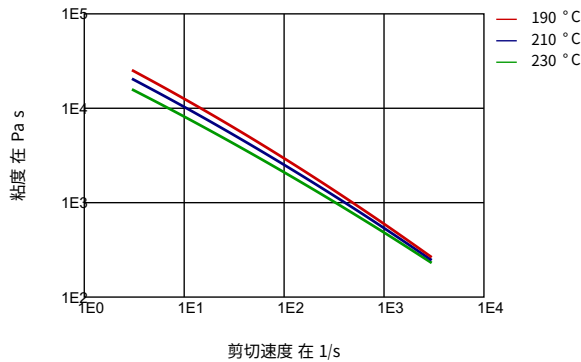
电介质强度, 73°F	1.3 - 1.6	kV/mil	ASTM D149
相对耐漏电起痕指数, CTI	600	-	IEC 60112
其它性能			
吸水性, 23°C, immersion, equilibrium	0.03	%	ISO 62
吸水性	0.03 - 0.05	%	ASTM D570
吸湿性	0.015	%	ISO 62
密度	1770	kg/m ³	ISO 1183
	1.77	g/cm ³	
比重, 73 °F	1.77 - 1.8	-	ASTM D792
光学特性			
Refractive Index @ sodium D line	1.42	-	ASTM D542

主要应用

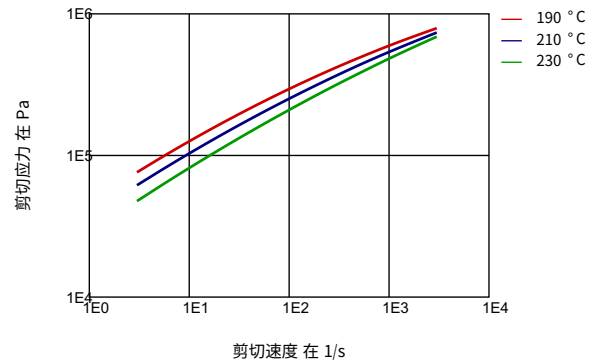
- 管道系统
- 化工行业中的腐蚀防护以及内衬管
- 海上
- 电线电缆

图表

粘度 - 剪切速度



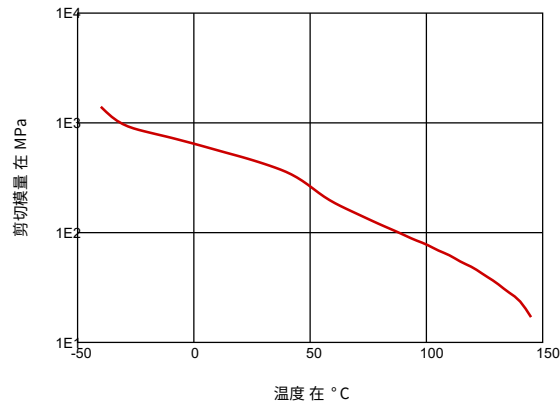
剪切应力 - 剪切速度



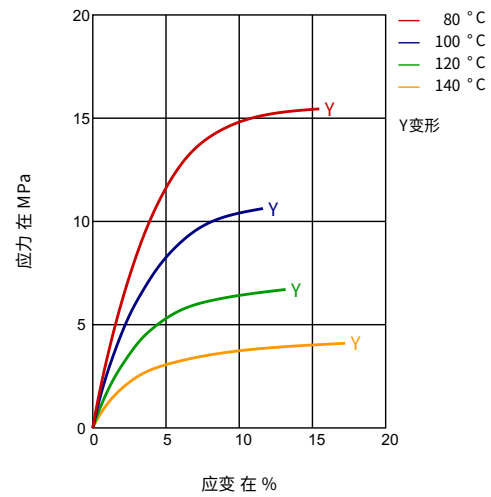
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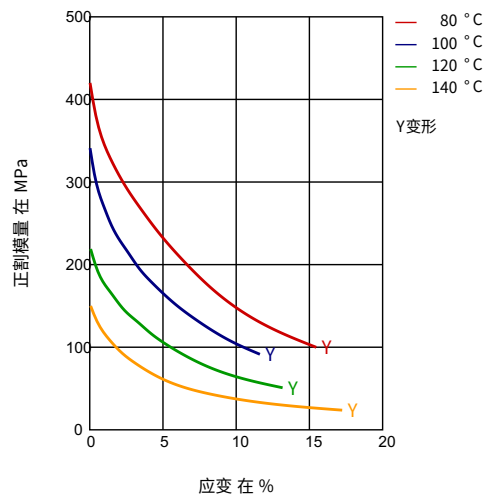
动态剪切模量 - 温度



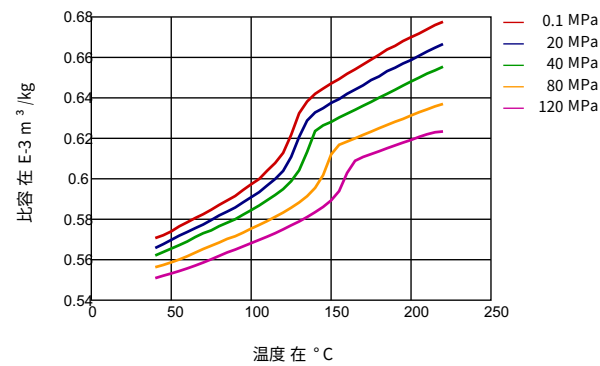
应力 - 应变.



正割模量 - 应变.



比容 - 温度(PVT)



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加工方法 异型材挤出成型, 其它挤出成型, 传递模塑成型	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
供货形式 粒料	
特殊性能 热稳定, 光稳定	
地区供应 北美, 欧洲, 亚太, 中南美洲, 中东/非洲	

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