

KYNAR FLEX®

2850-07

Kynar Flex®树脂 是氟化热塑性塑料共聚物。

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

Kynar Flex® 2850-07树脂 是一种中等粘度的Kynar Flex® 2850-00树脂，有助于挤出和共挤应用。

其UL RTI温度额定值为140°C。

[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			
熔融指数	9 - 16	g/10m in	ASTM D1238
温度	230	°C	-
负载	12.5	kg	-
熔体粘度, 230°C, 100 s ⁻¹	16 - 20	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/10 00 cycles	ASTM-G195-13A
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	

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简支梁缺口冲击强度, +23°C	无断裂	kJ/m ²	ISO 179/1eA
冲击强度, 73 °F	无断裂	kJ/m	ASTM D256
梁缺口冲击强度, 73 °F	0.16 - 0.427	kJ/m	ASTM D256
	3 - 8	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	157	°C	ISO 11357-1/-3
熔点	155 - 160	°C	ASTM D3418
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, 264 Psi, 248 °F/hr	37.8 - 55	°C	ASTM D648
	100 - 131	°F	
热变形温度, 66 Psi, 248 °F/hr	60 - 75	°C	ASTM D648
	140 - 167	°F	
热释放速率, 73 °F	12.6 - 18.5	10E-5/ °C	ASTM D696
	7 - 10.3	10E-5/ °F	
阻燃等级, 1.5mm厚	V-0	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	%	ASTM D2863
热导率	0.144 - 0.18	W/(m K)	ASTM D433
	1 - 1.25	BTU in (hr ft ² / (kg K)	
比热	745 - 958	J/(kg K)	DSC
	0.28 - 0.36	BTU/(l b °F)	
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	

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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	6.85	-	IEC 60250
电介质常数, 1 kHz	3.5 - 10.2	-	ASTM D150
介质损耗因子, 100Hz	0.12	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.	2E14	Ohm* cm	ASTM D257
介电强度	1.4	kV/m	IEC 60243-1
	35.6	kV/in	
电介质强度, 73°F	1.3 - 1.6	kV/mil	ASTM D149
其它性能			
吸水性, 23°C, immersion, equilibrium	0.03	%	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

——需要Kynar 2850-00树脂的高耐化学腐蚀性和耐热性的注塑应用

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