

KYNAR FLEX®

2900-04

Kynar Flex®树脂 是氟化热塑性塑料共聚物。

Kynar Flex® 2900-04树脂

是一种粒装的半结晶态VF基共聚物。它可用于柔性电线护套等挤出应用，或者要求较高极限氧指数的阻燃和烟气应用中的注塑。

其他特性：

——优异的热稳定性

——优异的耐磨性

——极其柔韧和坚固

符合UL 910要求

性能	价值	单位	测试标准
流变性能			
熔体体积流动速度	9	cm ³ /10min	ISO 1133
温度	232	°C	-
	450	°F	-
载荷	3.8	kg	-
	8.38	lb	-
熔融指数	4 - 21	g/10min	ASTM D1238
温度	230	°C	-
负载	3.8	kg	-
熔体粘度, 230°C, 100 s ⁻¹	6 - 12	kPoise	ASTM D3835
机械性能			
拉伸模量	700	MPa	ISO 527-1/-2
	102000	psi	
拉伸模量, 73 °F	552 - 896	MPa	ASTM D638
	80000 - 130000	psi	
屈服应力	25	MPa	ISO 527-1/-2
	3630	psi	
屈服应力, 73 °F	20 - 34.5	MPa	ASTM D638
	2900 - 5000	psi	
屈服伸长率	14.5	%	ISO 527-1/-2
屈服伸长率, 73 °F	15 - 25	%	ASTM D638
名义断裂伸长率	>50	%	ISO 527-1/-2
断裂拉伸强度, 73 °F	20 - 27.6	MPa	ASTM D638
	2900 - 4000	psi	

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断裂伸长率, 73 °F	100 - 300	%	ASTM D638
TABER耐摩耗性, CS 17 1000g:pad	16 - 19	mg/1000 cycles	ASTM-G195-13A
肖氏硬度, D, 73 °F	60 - 70	-	ASTM D2240
弯曲模量, 73 °F	483 - 758 70000 - 110000	MPa psi	ASTM D790
5%伸长率时弯曲强度, 73 °F	20.7 - 34.5 3000 - 5000	MPa psi	ASTM D790
压缩强度, 73 °F	31 - 41.4 4500 - 6000	MPa psi	ASTM D695
冲击强度, 73 °F	无断裂	kJ/m	ASTM D256
梁缺口冲击强度, 73 °F	0.534 - 1.07 10 - 20	kJ/m ftlb/in	ASTM D256
摩擦系数, 静态vs.钢, 73°F	0.33	-	ASTM D1894
摩擦系数, 动态vs.钢, 73°F	0.33	-	ASTM D1894
热性能			
熔融温度, 10°C/min	143	°C	ISO 11357-1/-3
熔点	140 - 145	°C	ASTM D3418
玻璃化转变温度, 10°C/min	-40	°C	ISO 11357-1/-2
玻璃化转变温度 (Tg)	-41.1 - -39.4 -42 - -39	°C °F	ASTM D7028
热变形温度, 264 Psi, 248 °F/hr	40 - 55 104 - 131	°C °F	ASTM D648
热变形温度, 66 Psi, 248 °F/hr	60 - 75 140 - 167	°C °F	ASTM D648
热释放速率, 73 °F	12.6 - 18.5 7 - 10.3	10E-5/ °C 10E-5/ °F	ASTM D696
阻燃等级, 1.5mm厚	V-0	class	IEC 60695-11-10
测试用试样的厚度	1.5 0.0591	mm 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 0.0315	mm in	-
氧指数	75	%	ISO 4589-1/-2

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氧指数	75	%	ASTM D2863
热导率	0.144 - 0.18	W/(m K)	ASTM D433
	1 - 1.25	BTU in	
比热	745 - 958	(/hr ft ² F)	DSC
	0.28 - 0.36	BTU/(l	
在空气中热分解	375	b.°F)	1% wt. loss
	707	°F	
在氮气中热分解	410	°C	1% wt. loss
	770	°F	
电性能			
电介质常数, 1 kHz	3.5 - 10.6	-	ASTM D150
耗散因素, 100 kHz	0.02 - 0.21	-	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
电介质强度, 73°F	1.3 - 1.5	kV/mil	ASTM D149
其它性能			
吸水性, 23°C, immersion, equilibrium	0.03	%	ISO 62
吸水性	0.03 - 0.05	%	ASTM D570
密度	1780	kg/m ³	ISO 1183
	1.78	g/cm ³	
比重, 73 °F	1.77 - 1.8	-	ASTM D792

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