

KYNAR FLEX®

2950-05

Kynar Flex®树脂 是氟化热塑性塑料共聚物。

Kynar Flex® 2950-05树脂 是一种球状颗粒的半结晶态含氟共聚物。

它专门设计用于有高柔韧性和更高耐冲击性需求的电线电缆应用。其低分子量有助于在挤出条件下减少光纤结构中的护套收缩。

其他特性：

——优异的热稳定性

——优异的耐磨性

——优异的耐化学腐蚀性

——耐紫外线性能

——氧指数极限高

——烟排放特性极低

符合UL910要求

性能	价值	单位	测试标准
流变性能			
熔体体积流动速度	11.5	cm³/10min	ISO 1133
温度	232	°C	-
	450	°F	-
载荷	3.8	kg	-
	8.38	lb	-
熔融指数	8 - 25	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	387	MPa	ISO 527-1/-2
	56100	psi	
拉伸模量, 73 °F	276 - 448	MPa	ASTM D638
	40000 - 65000	psi	
屈服应力	17	MPa	ISO 527-1/-2
	2470	psi	
屈服应力, 73 °F	13.8 - 21.4	MPa	ASTM D638
	2000 - 3100	psi	
屈服伸长率	18	%	ISO 527-1/-2

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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	
断裂伸长率, 73 °F	200 - 400	%	ASTM D638
TABER耐摩耗性, CS 17 1000g:pad	21 - 25	mg/1000 cycles	ASTM-G195-13A
肖氏硬度, D, 73 °F	57 - 62	-	ASTM D2240
弯曲模量, 73 °F	276 - 414	MPa	ASTM D790
	40000 - 60000	psi	
5%伸长率时弯曲强度, 73 °F	13.8 - 24.1	MPa	ASTM D790
	2000 - 3500	psi	
压缩强度, 73 °F	24.1 - 31	MPa	ASTM D695
	3500 - 4500	psi	
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	无断裂	kJ/m	ASTM D256
摩擦系数, 静态vs.钢, 73°F	0.55	-	ASTM D1894
摩擦系数, 动态vs.钢, 73°F	0.54	-	ASTM D1894
热性能			
熔融温度, 10°C/min	134	°C	ISO 11357-1/-3
熔点	130 - 138	°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)	-42.2 - -40	°C	ASTM D7028
	-44 - -40	°F	
热变形温度, 1.80 MPa	43	°C	ISO 75-1/-2
	109	°F	
热变形温度, 264 Psi, 248 °F/hr	35 - 51.7	°C	ASTM D648
	95 - 125	°F	
热变形温度, 0.45 MPa	57	°C	ISO 75-1/-2
	135	°F	
热变形温度, 66 Psi, 248 °F/hr	48.9 - 65.6	°C	ASTM D648
	120 - 150	°F	
热释放速率, 73 °F	16.2 - 21.6	10E-5/°C	ASTM D696
	9 - 12	10E-5/°F	

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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	95	%	ISO 4589-1/-2
氧指数	95	%	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 / (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	
电性能			
相对介电常数, 100Hz	7.05	-	IEC 60250
电介质常数, 1 kHz	3.8 - 12.1	-	ASTM D150
介质损耗因子, 100Hz	0.12	E-4	IEC 60250
耗散因素, 100 kHz	0.02 - 0.24	-	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	1.1 - 1.3	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	1770	kg/m ³	ISO 1183
	1.77	g/cm ³	
比重, 73 °F	1.78 - 1.8	-	ASTM D792

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地区供应	Headquarters:
北美, 欧洲, 亚太, 中南美洲, 中东/非洲	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

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