KYNAR FLEX®
3120-15

Kynar Flex®树脂 是氟化热塑性塑料共聚物。
Kynar Flex® 3120-15 树脂 专门设计用于要求温度额定值为150°C并提高阻燃性和抗烟力的电线和电缆结构中。

Kynar Flex® 3120-15 树脂 易于加工，而且具有优异的物理、机械、耐热性和阻燃特性。粘度低，易于加工。

其他特性：

——优异的热稳定性

——优异的耐磨性

——氧指数极限高

——烟排放特性极低

Kynar Flex® 3120-15 树脂 符合UL 910的阻燃性和抗烟力要求。

性能	价值	单位	测试标准
流变性能			
熔体体积流动速度	4	cm³/10min	ISO 1133
温度	232	°C	-
	450	°F	
载荷	3.8	kg	-
	8.38	lb	
熔融指数	4 - 18	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	689 - 1170	MPa	ASTM D638
	100000 - 170000	psi	
屈服应力	27	MPa	ISO 527-1/-2
	3920	psi	
屈服应力, 73 °F	24.1 - 34.5	MPa	ASTM D638
	3500 - 5000	psi	
屈服伸长率	15	%	ISO 527-1/-2
屈服伸长率, 73 °F	10 - 20	%	ASTM D638
名义断裂伸长率	>50	%	ISO 527-1/-2

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断裂拉伸强度, 73 °F	34.5 - 48.3	MPa	ASTM D638
	5000 - 7000	psi	
断裂伸长率, 73 °F	300 - 500	%	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	65 - 70	-	ASTM D2240
弯曲模量, 73 °F	621 - 827	MPa	ASTM D790
	90000 - 120000	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	31 - 41.4	MPa	ASTM D695
	4500 - 6000	psi	
简支梁缺口冲击强度, +23°C	无断裂	kJ/m²	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	0.31	-	ASTM D1894
摩擦系数, 动态vs.钢, 73°F	0.3	-	ASTM D1894
热性能			
熔融温度, 10°C/min	164	°C	ISO 11357-1/-3
熔点	161 - 168	°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	°C	ASTM D7028
	-42 - -39	°F	
温度额定值为	150	°C	UL RTI
	302	°F	
热变形温度, 1.80 MPa	48	°C	ISO 75-1/-2
	119	°F	
热变形温度, 264 Psi, 248 °F/hr	43.3 - 54.4	°C	ASTM D648
	110 - 130	°F	
热变形温度, 0.45 MPa	65	°C	ISO 75-1/-2
	149	°F	
热变形温度, 66 Psi, 248 °F/hr	54.4 - 76.7	°C	ASTM D648
	130 - 170	°F	
热释放速率, 73 °F	12.6 - 18.5	10E-5/°C	ASTM D696
	7 - 10.3	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	1.0	mm	-
	0.0394	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 /(hr ft2 F)	
比热	745 - 958	J/(kg K)	DSC
	0.28 - 0.36	BTU/(lb·°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	
相对热指数, 机械的	150	°C	UL 746B
	302	°F	
相对热指数, 电气	150	°C	UL 746B
	302	°F	
电性能			
相对介电常数, 100Hz	6.7	-	IEC 60250
电介质常数, 1 kHz	3.2 - 10.2	-	ASTM D150
介质损耗因子, 100Hz	0.105	E-4	IEC 60250
耗散因素, 100 kHz	0.02 - 0.19	-	ASTM D150
体积电阻率	2E12	Ohm* m	IEC 62631-3-1
表面电阻率, 73 °F	5.9E11 - 6.1E11	Ohm per square	ASTM D257
电介质强度, 73°F	1.3 - 1.5	kV/mil	ASTM D149
其它性能			
吸水性	0.03 - 0.05	%	ASTM D570
密度	1780	kg/m³	ISO 1183
	1.78	g/cm³	

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比重, 73 °F	1.77 - 1.8	-	ASTM D792

加工方法

其它挤出成型

供货形式

粒料

添加剂

润滑剂

特殊性能

热稳定, 光稳定

地区供应

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