KYNAR®
741

Kynar® 树脂 是氟化热塑性塑料均聚物。
特性出色： 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。

性能	价值	单位	测试标准
流变性能			
熔体体积流动速度	1.13	cm³/10min	ISO 1133
温度	230	°C	-
	446	°F	
载荷	5	kg	-
	11	lb	
熔融指数	1.5 - 3	g/10min	ASTM D1238
温度	230	°C	-
负载	5	kg	-
模塑收缩率, 平行	2.5	%	ISO 294-4, 2577
模塑收缩率, 垂直	2.5	%	ISO 294-4, 2577
熔体粘度, 230°C, 100 s^{-1}	15 - 23	kPoise	ASTM D3835
机械性能			
拉伸模量	2000	MPa	ISO 527-1/-2
	290000	psi	
拉伸模量, 73 °F	1380 - 2310	MPa	ASTM D638
	200000 - 335000	psi	
屈服应力	50	MPa	ISO 527-1/-2
	7250	psi	
屈服应力, 73 °F	44.8 - 55.2	MPa	ASTM D638
	6500 - 8000	psi	
屈服伸长率	9	%	ISO 527-1/-2
屈服伸长率, 73 °F	5 - 10	%	ASTM D638
名义断裂伸长率	>50	%	ISO 527-1/-2
断裂拉伸强度, 73 °F	34.5 - 55.2	MPa	ASTM D638
	5000 - 8000	psi	
断裂伸长率, 73 °F	20 - 100	%	ASTM D638
TABER耐摩耗性, CS 17 1000g:pad	5 - 9	mg/1000 cycles	ASTM-G195-13A
肖氏硬度, D, 73 °F	76 - 80	-	ASTM D2240
弯曲模量, 73 °F	1380 - 2310	MPa	ASTM D790
	200000 - 335000	psi	

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5%伸长率时弯曲强度, 73 °F	58.6 - 75.8	MPa	ASTM D790
	8500 - 11000	psi	
压缩强度, 73 °F	68.9 - 103	MPa	ASTM D695
	10000 - 15000	psi	
简支梁缺口冲击强度, +23°C	25	kJ/m²	ISO 179/1eA
	11.9	ftlb/in²	
冲击强度, 73 °F	1.07 - 4.27	kJ/m	ASTM D256
	20 - 80	ftlb/in	
梁缺口冲击强度, 73 °F	0.0961 - 0.214	kJ/m	ASTM D256
	1.8 - 4	ftlb/in	
摩擦系数, 静态vs.钢, 73°F	0.2	-	ASTM D1894
摩擦系数, 动态vs.钢, 73°F	0.14	-	ASTM D1894
热性能			
熔融温度, 10°C/min	170	°C	ISO 11357-1/-3
熔点	165 - 172	°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)	-40.6 - -38.3	°C	ASTM D7028
	-41 - -37	°F	
温度额定值为	150	°C	UL RTI
	302	°F	
热变形温度, 1.80 MPa	104	°C	ISO 75-1/-2
	219	°F	
热变形温度, 264 Psi, 248 °F/hr	105 - 115	°C	ASTM D648
	221 - 239	°F	
热变形温度, 0.45 MPa	150	°C	ISO 75-1/-2
	302	°F	
热变形温度, 66 Psi, 248 °F/hr	125 - 140	°C	ASTM D648
	257 - 284	°F	
线性热膨胀系数, 平行	150	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 垂直	150	E-6/K	ISO 11359-1/-2
热释放速率, 73 °F	11.9 - 14.4	10E-5/°C	ASTM D696
	6.6 - 8	10E-5/°F	
阻燃等级，1.5mm厚	V-0	class	IEC 60695-11-10
Yellow Card 现存	是的	-	-
阻燃等级，厚度h	V-0	class	IEC 60695-11-10

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测试用试样的厚度	0.8 0.0315	mm in	-
氧指数	43	%	ISO 4589-1/-2
氧指数	44	%	ASTM D2863
热导率	0.17 - 0.19 1.18 - 1.32	W/(m K) BTU in /(hr ft2 F)	ASTM D433
比热	745 - 958 0.28 - 0.36	J/(kg K) BTU/(lb·°F)	DSC
在空气中热分解	375 707	°C °F	1% wt. loss
在氮气中热分解	410 770	°C °F	1% wt. loss
相对热指数, 机械的	150 302	°C °F	UL 746B
相对热指数, 电气	150 302	°C °F	UL 746B
电性能			
电介质常数, 1 kHz	4.5 - 9.5	-	ASTM D150
耗散因素, 100 kHz	0.01 - 0.21	-	ASTM D150
体积电阻率, DC 68 °F, 65% R.H.	2E14	Ohm* cm	ASTM D257
电介质强度, 73°F	1.7	kV/mil	ASTM D149
其它性能			
吸水性, 23°C, immersion, equilibrium	0.02	%	ISO 62
吸水性	0.01 - 0.03	%	ASTM D570
密度	1780 1.78	kg/m³ g/cm³	ISO 1183
比重, 73 °F	1.77 - 1.79	-	ASTM D792
熔体	0.19	W/(m K)	-

主要应用
——化工行业中的防腐蚀应用
——涂料（涂装，共挤）
——海上
——电线电缆
——聚合物加工助剂
——电池

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加工方法 其它挤出成型	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
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