

KYNAR® 720

Kynar® 树脂 是氟化热塑性塑料均聚物。

出色的特性：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。

Kynar® 720 HD树脂 是一种标准的粒状颗粒，适用于注塑。

该产品通过了 NSF/ANSI/CAN 61 认证。

其粉末形态产品为Kynar® 721 树脂。

性能	价值	单位	测试标准
流变性能			
熔体体积流动速度	18	cm ³ /10min	ISO 1133
温度	230	°C	-
	446	°F	-
载荷	5	kg	-
	11	lb	-
熔融指数	5 - 26.5	g/10min	ASTM D1238
温度	230	°C	-
负载	3.8	kg	-
模塑收缩率, 平行	2.0	%	ISO 294-4, 2577
模塑收缩率, 垂直	2.0	%	ISO 294-4, 2577
熔体粘度, 230°C, 100 s ⁻¹	6 - 12	kPoise	ASTM D3835
机械性能			
拉伸模量	2200	MPa	ISO 527-1/-2
	319000	psi	
拉伸模量, 73 °F	1380 - 2310	MPa	ASTM D638
	200000 - 335000	psi	
屈服应力	54	MPa	ISO 527-1/-2
	7830	psi	
屈服应力, 73 °F	44.8 - 55.2	MPa	ASTM D638
	6500 - 8000	psi	
屈服伸长率	8	%	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/100 cycles	ASTM-G195-13A

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KYNAR®

720

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	
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	
简支梁冲击强度, +23°C	208	kJ/m ²	ISO 179/1eU
	98.9	ftlb/in ²	
简支梁冲击强度, -30°C	189	kJ/m ²	ISO 179/1eU
	89.9	ftlb/in ²	
简支梁缺口冲击强度, +23°C	8	kJ/m ²	ISO 179/1eA
	3.81	ftlb/in ²	
简支梁缺口冲击强度, -30°C	5	kJ/m ²	ISO 179/1eA
	2.38	ftlb/in ²	
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	0.0801 - 0.214	kJ/m	ASTM D256
	1.5 - 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	169	°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	
热变形温度, 1.80 MPa	110	°C	ISO 75-1/-2
	230	°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	132	°C	ISO 75-1/-2
	270	°F	
热变形温度, 66 Psi, 248 °F/hr	125 - 140	°C	ASTM D648
	257 - 284	°F	

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720

维卡软化温度, 50°C/h 50N	139	°C	ISO 306
	282	°F	
线性热膨胀系数, 平行	140	E-6/K	ISO 11359-1/-2
热释放速率, 73 °F	11.9 - 14.4	10E-5/	ASTM D696
	6.6 - 8	°C 10E-5/	
阻燃等级, 1.5mm厚	V-0	°F class	IEC 60695-11-10
测试用试样的厚度	1.6	mm	-
	0.0630	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	66	%	ISO 4589-1/-2
氧指数	44	%	ASTM D2863
热导率	0.17 - 0.19	W/(m K)	ASTM D433
	1.18 - 1.32	BTU in	
比热	745 - 958	/(hr ft ² F)	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	
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	9	-	IEC 60250
相对介电常数, 1MHz	7	-	IEC 60250
电介质常数, 1 kHz	4.5 - 9.5	-	ASTM D150
介质损耗因子, 100Hz	320	E-4	IEC 60250
介质损耗因子, 1MHz	2140	E-4	IEC 60250
耗散因素, 100 kHz	0.01 - 0.21	-	ASTM D150
体积电阻率	2E12	Ohm* m	IEC 62631-3-1

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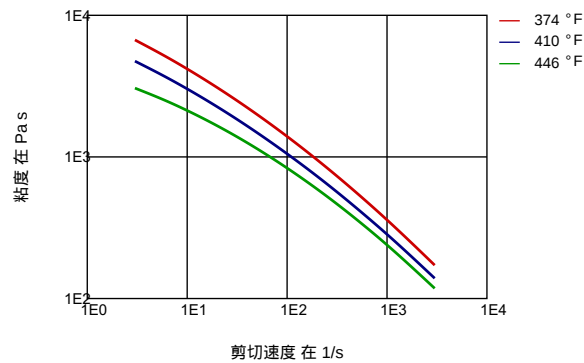
体积电阻率, DC 68 °F, 65% R.H.	2E14	Ohm* cm	ASTM D257
表面电阻率	>1E15	Ohm	IEC 62631-3-2
介电强度	21 533	kV/m kV/in	IEC 60243-1
电介质强度, 73°F	≥ 1.7	kV/mil	ASTM D149
相对耐漏电起痕指数, CTI	600	-	IEC 60112
其它性能			
吸水性, 23°C, immersion, equilibrium	0.02	%	ISO 62
吸水性	0.01 - 0.03	%	ASTM D570
吸湿性	0.015	%	ISO 62
密度	1780 1.78	kg/m³ g/cm³	ISO 1183
比重, 73 °F	1.77 - 1.79	-	ASTM D792
熔体	0.19	W/(m K)	-
光学特性			
Refractive Index @ sodium D line	1.42	-	ASTM D542

主要应用

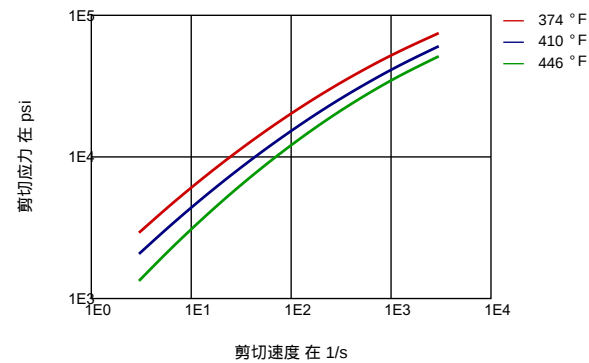
- 化工行业中的防腐蚀应用
- 涂料（涂装，共挤）
- 海上
- 电线电缆

图表

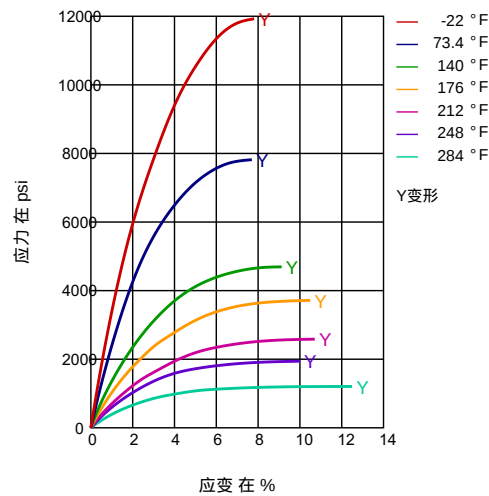
粘度 - 剪切速度



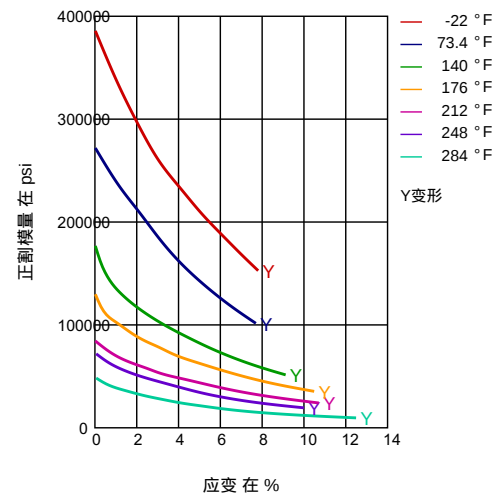
剪切应力 - 剪切速度



应力 - 应变.

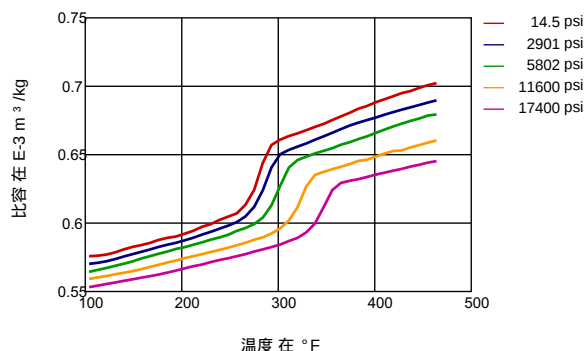


正割模量 - 应变.



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比容 - 温度(PVT)



加工方法 注塑, 薄膜挤出成型, 片材挤出成型, 其它挤出成型, 浇铸成型, 热成型	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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