

KYNAR® 705

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。

Kynar® 705 树脂 是一种粒状颗粒，适用于注塑、滚塑应用以及复丝挤出。

性能	价值	单位	测试标准
流变性能			
熔体体积流动速度	40	cm ³ /10min	ISO 1133
温度	230	°C	-
	446	°F	-
载荷	5	kg	-
	11	lb	-
熔融指数	25 - 40	g/10min	ASTM D1238
温度	230	°C	-
负载	2.16	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	2 - 5	kPoise	ASTM D3835
机械性能			
拉伸模量	2400	MPa	ISO 527-1/-2
	348000	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	10 - 50	%	ASTM D638
TABER耐磨耗性, CS 17 1000g:pad	5 - 9	mg/100 cycles	ASTM-G195-13A
肖氏硬度, D, 73 °F	76 - 80	-	ASTM D2240

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Source: automatically generated TDS from Material Database on 20-02-2024

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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	200	kJ/m ²	ISO 179/1eU
	95.1	ftlb/in ²	
简支梁缺口冲击强度, +23°C	6	kJ/m ²	ISO 179/1eA
	2.85	ftlb/in ²	
梁缺口冲击强度, 73 °F	0.0534 - 0.107	kJ/m	ASTM D256
	1 - 2	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	
热变形温度, 1.80 MPa	112	°C	ISO 75-1/-2
	234	°F	
热变形温度, 264 Psi, 248 °F/hr	105 - 115	°C	ASTM D648
	221 - 239	°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-40 °C至+100 °C, 平行	150	E-6/K	ISO 11359-1/-2
线性热膨胀系数-40 °C至+100 °C, 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
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	43	%	ISO 4589-1/-2

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氧指数	42	%	ASTM D2863
热导率	0.17 - 0.19 1.18 - 1.32	W/(m K) BTU in	ASTM D433
比热	745 - 958 0.28 - 0.36	(hr ft ² / (kg K) BTU/(l	DSC
在空气中热分解	375 707	b.°F) °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	1.6	kV/mil	ASTM D149
其它性能			
吸水性, 23°C, immersion, equilibrium	0.02	%	ISO 62
吸水性	≤ 0.05	%	ASTM D570
密度	1780 1.78	kg/m ³ g/cm ³	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

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