

KYNAR® 761

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	1.3	cm ³ /10min	ISO 1133
温度	230	°C	-
	446	°F	-
载荷	10	kg	-
	22	lb	-
熔融指数	2 - 6	g/10min	ASTM D1238
温度	230	°C	-
负载	12.5	kg	-
模塑收缩率, 平行	3.0	%	ISO 294-4, 2577
模塑收缩率, 垂直	3.0	%	ISO 294-4, 2577
熔体粘度, 230°C, 100 s ⁻¹	23 - 29	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耐磨耗性, 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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Source: automatically generated TDS from Material Database on 20-02-2024

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5%伸长率时弯曲强度, 73 °F	58.6 - 75.8 8500 - 11000	MPa psi	ASTM D790
压缩强度, 73 °F	68.9 - 103 10000 - 15000	MPa psi	ASTM D695
简支梁缺口冲击强度, +23°C	50 23.8	kJ/m² ftlb/in²	ISO 179/1eA
冲击强度, 73 °F	1.07 - 4.27 20 - 80	kJ/m ftlb/in	ASTM D256
梁缺口冲击强度, 73 °F	0.0961 - 0.214 1.8 - 4	kJ/m ftlb/in	ASTM D256
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 -41 - -37	°C °F	ASTM D7028
温度额定值为	150 302	°C °F	UL RTI
热变形温度, 1.80 MPa	104 219	°C °F	ISO 75-1/-2
热变形温度, 264 Psi, 248 °F/hr	105 - 115 221 - 239	°C °F	ASTM D648
热变形温度, 66 Psi, 248 °F/hr	125 - 140 257 - 284	°C °F	ASTM D648
线性热膨胀系数, 平行	150	E-6/K	ISO 11359-1/-2
热释放速率, 73 °F	11.9 - 14.4 6.6 - 8	10E-5/ °C 10E-5/ °F	ASTM D696
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
测试用试样的厚度	0.8 0.0315	mm in	-
氧指数	43	%	ISO 4589-1/-2

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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	
在空气中热分解	375	b.°F)	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			
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
其它性能			
吸水性, 23°C, immersion, equilibrium	0.02	%	ISO 62
吸水性	0.01 - 0.03	%	ASTM D570
比重, 73 °F	1.77 - 1.79	-	ASTM D792
熔体	0.19	W/(m K)	-
熔体密度	1780	kg/m ³	-
	111	lb/ft ³	
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
- 聚合物加工助剂
- 电池

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 Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
供货形式 粉料	

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